# Conversion Factors Handbook

# CONVERSION INDEX

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The conversion factors listed in this book are computed as such:

23 (6/0) is read 23,000,000

or

.5/0 4698 is read .000004698

| | | |
|---|---|---|
| Abampere | × 10. | = Ampere |
| | × 2998(7/o). | = Statampere |
| Abampere/Square Centimeter | × 10. | = Ampere/Square Centimeter |
| | × 64.52 | = Ampere/Square Inch |
| | × 1(5/o). | = Ampere/Square Meter |
| | × 2998(7/o). | = Statampere/Sq Centimeter |
| Abampere - Turn | × 10. | = Ampere - Turn |
| | × 12.566 | = Gilbert |
| Abampere - Turn/Centimeter | × 10. | = Ampere - Turn/Centimeter |
| | × 25.40005 | = Ampere - Turn/Inch |
| | × 1000. | = Ampere-Turn/Meter |
| | × 12.57 | = Gilbert/Centimeter |
| | × 12.57 | = Oersted |
| Abbreviations Used in This Book | = 23(6/o). | Is Read 23000000. |
| | = .5/o46 | Is Read .0000046 |
| Abcoulomb | × .00277777 | = Ampere-Hour |
| | × 10. | = Coulomb |
| | × 62425(15/o). | = Electronic Charge |
| | × .00010365 | = Faraday |
| | × 2998(7/o). | = Statcoulomb |
| Abcoulomb/Square Centimeter | × 10. | = Coulomb/Sq Centimeter |
| | × 64.52 | = Coulomb/Sq Inch |
| | × 1(5/o). | = Coulomb/Sq Meter |
| | × 2998(7/o). | = Statcoulomb/Sq Centimeter |
| Abfarad | × 1(9/o). | = Farad |
| | × 1(15/o). | = Microfarad |
| | × 8988(17/o). | = Statfarad |
| Abhenry | × .8/o1 | = Henry |
| | × .001 | = Microhenry |
| | × .5/o1 | = Millihenry |
| | × .20/o1112 | = Stathenry |
| Abmho/Centimeter | × 1.0 | = Abmho/Centimeter Cube |
| | × 1(11/o). | = Mho/Meter |
| | × 1(11/o). | = Mho/Meter Cube |
| | × 166.2 | = Mho/Mil-Foot |
| | × 166.2 | = Mho-Mil-Foot |
| | × 1000. | = Micromho/Centimeter |
| | × 1000. | = Micromho/Centimeter Cube |
| | × 2540. | = Micromho/Inch |
| | × 2540. | = Micromho/Inch Cube |
| Abmho/Centimeter × gm/cc | = 1(5/o). | × Mho/Meter-Gram |
| | = 1(5/o). | × Mho-Meter-Gram |
| Abmho/Centimeter Cube | × 1.0 | = Abmho/Centimeter |
| Abohm | × .14/o1 | = Megohm |
| | × .001 | = Microhm |
| | × .8/o1 | = Ohm |
| | × .20/o111279 | = Statohm |
| Abohm-Centimeter | × 1.0 | = Abohm/Centimeter Cube |
| | × .001 | = Microhm-Centimeter Cube |
| | × .0003937 | = Microhm-Inch Cube |
| | × .006015 | = Ohm-Circular Mil-Foot |
| | × .10/o1 | = Ohm-Meter Cube |
| | × .006015 | = Ohm/Mil-Foot |
| Abohm-Centimeter × gm/cc | × .4/o1 | = Ohm-Meter-Gram |
| Abohm/Centimeter Cube | × 1.0 | = Abohm-Centimeter |
| Abvolt | × .01 | = Microvolt |
| | × .4/o1 | = Millivolt |
| | × .10/o33358 | = Statvolt |
| | × .7/o1 | = Volt |
| Abvolt/Centimeter | × .10/o1 | = Kilovolt/Centimeter |
| | × 1.0 | = Microvolt/Meter |
| | × .001 | = Millivolt/Meter |
| | × .10/o3335 | = Statvolt/Centimeter |
| | × .7/o1 | = Volt/Centimeter |
| | × .7/o254 | = Volt/Inch |

# A CONVERSION FACTORS

| | | |
|---|---|---|
| Abvolt/Centimeter | × .5/o1 | = Volt/Meter |
| | × .10/o254 | = Volt/Mil |
| Acceleration | × Mass | = Force |
| Acetate: $C_2H_3O_2$: | = -1 | = Valence |
| Acetylene (60F-30" Hg): | = .906 | = Specific Gravity (Air=1) |
| Cubic Foot | × 1435. | = Btu Gross Combustion Heat |
| | × 12.1 | = Cuft Air for Combustion |
| | × .069 | = Pound (Weight) |
| Cuft Mixed Air-Gas | × 114.54 | = Btu Gross Combustion Heat |
| Flame Temperature | × 4160. | = Degree F Maximum |
| Pound | × 21430. | = Btu Gross Combustion Heat |
| | × 14.32' | = Cubic Feet |
| | × 13.306 | = Pound Air for Combustion |
| Acoustical Material: Absorption Coefficient | × Room Area SqFt | = Sabin |
| Acre | × 40.46873 | = Arc |
| | × .4046873 | = Hectare |
| | × 4. | = Road |
| | × .00156250 | = Section |
| | × 40468726. | = Square Centimeter |
| | × 10. | = Square Chain Gunter |
| | × 43560. | = Square Feet |
| | × 6272640. | = Square Inch |
| | × .00404687 | = Square Kilometer |
| | × 4046.873 | = Square Meter |
| | × .00156250 | = Square Mile US Statute |
| | × 4047(6/o). | = Square Millimeter |
| | × 160. | = Square Rod |
| | × 5645.4 | = Square Vara |
| | × 4840. | = Square Yard |
| Acre-Foot | × 7757.8 | = Barrel (42) |
| | × 43560. | = Cubic Feet |
| | × 1233.49 | = Cubic Meter |
| | × 1613.33 | = Cubic Yard |
| | × 325851.40764 | = Gallon Liquid US |
| | × .5042 | = Second-Foot |
| Acre-Foot × Percent Porosity | × 7757.8 | = Barrel (42) |
| Acre: Square | = 208.7103 | = Feet Length or Width |
| 1/2 Square | = 147.58 | = Feet Length or Width |
| 1/4 Square | = 104.355 | = Feet Length or Width |
| Air: 32F: 14.69 69psi: Cold Air Standard | = 1.3947 | = k |
| Composition: | = 79% = 77 wgt | = Nitrogen Content |
| | = 21% = 23 wgt | = Oxygen Content |
| | = 3.8 = 3.3 | = Ratio Nitrogen/Oxygen |
| Cuft | = .6/o5 | = Cuft Ammonia |
| | = .014 | = Cuft Aqueous Vapor |
| | = .0079 | = Cuft Argon |
| | = .000336 | = Cuft Carbon dioxide |
| | = .5/o8 | = Cuft Nitric Acid |
| | = .77116 | = Cuft Nitrogen |
| | = .206594 | = Cuft Oxygen |
| | = .5/o15 | = Cuft Ozone |
| Cubic Centimeter | × .0012929 | = Gram |
| Cubic Foot | × .080728 | = Pound |
| Cubic Meter | × 1.2929 | = Kilogram |
| Kilogram | × .7734 | = Cubic Meter |
| Liter | × 1.2929 | = Gram (0-100C) |
| Molal or Molar Sp Heat | = 6.826 | = Mol Wgt × Btu/# Cp |
| Molecular Weight | = 28.85 | = Sum of Atomic Weights |
| R = pv/T | = 53.3 | = Cuft/Lb/°R/Lb Air (Read) |
| R = pv/T=Gas Constant | = 53.3 | = Ft-lb/(°R × lb) (Figure) |
| R × Mol Weight = MR | = 1545. | = Universal Gas Constant |
| R × Mol Weight = MR | = 1545. | = Molar Gas Constant |
| Specific Gravity | = 1.0 | = Gas Standard (0 + 4N) |
| Specific Heat Cp | = .2375 | = Btu/Pound-°F |
| Specific Heat Cv | = .1689 | = Btu/Pound-°F |
| Specific Heat Ratio | = 1.406 | = Btu/Pound-°F (Cp/Cv) |

| | | |
|---|---|---|
| Air: 32F: 14.69 69psi: Specific Volume | = 12.387 | = Cuft/Pound |
| Thermal Conductivity | = .163 | = Btu-Inch/SqFt-Hour-°F |
| Thermal Conductivity | = .0136 | = Btu-Foot/SqFt-Hour-°F |
| Air: 60F: Cubic Foot | × .07651 | = Pound |
| Pound | × 13.095 | = Cubic Feet |
| 62F: Cubic Foot | × .0761 | = Pound |
| Pound | × 13.141 | = Cubic Feet |
| 70F: Cubic Foot | × .01799 | = Btu (Can Absorb) |
| | = .075 | = Pound (Standard Density) |
| Density Lb/cuft × Ft Head of Air × cfm | × .00030303 | = Air Horsepower (Fan) |
| Dry: Pound Weight × Rankine Degree | × .37 | = Cuft Volume × psia |
| Expansion: Degree Centigrade | × .003671 | = psi CP |
| | × .003665 | = psi Cv (0-100C) |
| Degree Fahrenheit | × .002034 | = psi Cv (0-100C) |
| Flow Resistance: 1"-4" Ell or Tee | = 3.7d"-1.7 | = Equiv Ft Straight Pipe |
| 5"-8" Ell or Tee | = 4d" | = Equiv Ft Straight Pipe |
| 1"-3" Valve | = 5.5d"-3.5 | = Equiv Ft Straight Pipe |
| 4"-8" Valve | = 8.25d"-13. | = Equiv Ft Straight Pipe |
| Horsepower (Fan) | × 33000. | = Lb Air/Min × Ft Head of Air |
| Static × 6356. | = cfm | × Inch Water Gage (Static Press) |
| Total × 6356. | = cfm | × Inch Water Gage (Total Press) |
| Pressure On Flat Surface: Feet/Second | × .00125 | = Pound/Square Foot Area |
| Suction @ Hood Face: Electroplate Vapor | = 1500. | = Lineal fpm (Flow Rate) |
| Granite Dust | = 1500. | = Lineal fpm (Flow Rate) |
| Paint Spray | = 200. | = Lineal fpm (Flow Rate) |
| Throttled: Temperature Drop | | = .03F Degree/psi Drop |
| Viscosity: | = 1812(5/o). | = Poise 59F |
| Air-Conditioner: Blower: Ambient Temp °F | + 20. | = °F Air (Discharge Side) |
| House Light Heat: Watt | × 3.41 | = Btu/Hour |
| Occupant Heat: Persons | × 400. | = Btu/Hour |
| Persons | × .25 to .4 | = Ton Refrig Needed |
| Square | × .25 to .4 | = Ton Refrigeration |
| 3/4 Ton Unit | = 1600 | = Watt (Average Use) |
| Water Tower | = 2 to 3 | = Gallon/Minute Water |
| | = 95°F | = Max Discharge Temp |
| Airlift: Cubic Feet of Oil Raised | × 13. | = Cuft Air (Efficient Volume) |
| Gallons of Oil Raised | × 1.25 | = Cuft Air (Practical Volume) |
| Seconds | × 35. | = Cuft Air (Maximum Rate) |
| Alcohol: Cubic Foot | × 50. | = Pound |
| Ethyl: Boiling Point | = 78.32 | = Degree Centigrade (76cm) |
| Cubic Centimeter | × .789 | = Gram (Density 68F) |
| Latent Heat Fusion | = 24.89 | = Gram-Calorie/Gram |
| Pound | × 12835. | = Btu (Heat Value) |
| Specific Heat | = .548 | = Btu/Pound/°F |
| Specific Heat 68F | = 1.02 | = Gram-Calorie/Gram-°C |
| Viscosity 20C | = .012 | = Poise |
| Gallon | × 6.7 | = Pound |
| Methyl: Pound | × 9063. | = Btu (Heat Value) |
| Specific Heat 73.4F | = 1.0 | = Gram-Calorie/Gram-°C |
| Aluminum: (A1): #13: 26.97 AW: 2.64 Spg: Val. +3 | | |
| Cubic Centimeter | × 2.70 | = Gram 59F |
| Cubic Foot | × 165. | = Pound 68F |
| Heat Conductivity | = 117. | = Btu/(hr)(SqFt)(°F/Ft) |
| Linear Expansion: Inch | × 12.3 | = Micro-Inch/Degree F |
| Specific Heat | = .212 | = Btu/Pound/°F |
| Specific Thermal Capacity | = 40. | = Watt-Second/Culn/°C |
| Thermal Conductivity | = 5.3 | = Watt/°C/Inch |
| Amarillo Heating Load | = 4655. | = Degree-Day |
| Ammonia Gas: (60F-30"Hg): Cubic Feet | × .04566 | = Pound |
| Pound | × 21.90 | = Cubic Feet |
| Specific Gravity | = .5963 | Air = 1 |
| Ammonium: $NH_4$: | = +1 | = Valence |
| Ampere (I) | × .1 | = Abampere |
| | × 1.0 | = Ampere Absolute |
| | × 1.000165 | = Ampere International |
| | × 1. | = Coulomb/Second |

# A CONVERSION FACTORS

| | | |
|---|---|---|
| Ampere (I) | × 1.0 | = Current Unit Practical |
| | × 1. | = Electric Current Unit |
| | × .4/o10365 | = Faraday/Second |
| | × .001 | = Milliampere |
| | × 2998(6/o). | = Statampere |
| | × Ohm | = Volt or Potential Difference |
| | × Ohm Impedance | = Volt |
| | × Second | = Coulomb |
| | × Volt | = Volt-Ampere |
| | × Volt | = Watt |
| Ampere × Hour | × Volt | = Watt-Hour |
| = Rate of Flow = Current Strength | = 1.0 | = Unit of Strength |
| × Second | × Volt | = Joule or Watt-Second |
| × Turns | × 1.256637 | = Gilbert |
| × Volt | × Hour | = Watt-Hour |
| × Volt × Hour | × .001 | = Kilowatt-Hour |
| Ampere Absolute | × 1.0 | = Ampere |
| Ampere: AC: Single Ph: × Volt | × .001 | = Kilovolt-Ampere |
| × Hour | × .001 | = Kilowatt-Hour |
| × PF | × .001 | = Kilowatt |
| × % Eff | × .0013404825 | = Horsepower Electric |
| Ampere: AC: 2 Ph-4 Wire: × Volt | × .002 | = Kilovolt-Ampere |
| × PF | × .002 | = Kilowatt |
| × % Eff | × .00268 | = Horsepower Electric |
| Ampere: AC: 3 Ph: × Volt | × .00173 | = Kilovolt-Ampere |
| × PF | × .00173 | = Kilowatt |
| × % Eff | × .002319 | = Horsepower Electric |
| Ampere/Circular Mil | × 197350. | = Ampere/Square Centimeter |
| Ampere DC: × Volt | × .001 | = Kilowatt |
| Ampere-Hour | × 360. | = Abcoulomb |
| | × 3600. | = Coulomb |
| | × .037307 | = Faraday |
| | × 10792(9/o). | = Statcoulomb |
| Ampere-Hour/Gram × Volt | × 1.3411 | = HP US-Hour/Kilogram |
| × Volt | × .60786 | = HP US-Hour/Pound |
| Ampere International | × .999835 | = Ampere Absolute |
| Ampere/Square Centimeter | × .1 | = Abampere/Sq Centimeter |
| | × 6.45163 | = Ampere/Sq Inch |
| | × 10000. | = Ampere/Sq Meter |
| | × 1. | = Current Density Unit |
| | × 2998(6/o). | = Statampere/Sq Centimeter |
| Ampere Squared | × Ohm | = Watt |
| × Ohm | × Second | = Joule |
| × Ohm | × Second | = Watt-Second |
| × Hour | × 3.4128 | = Btu |
| × Minute | × .05688 | = Btu |
| × Second | × .0009477 | = Btu |
| | × .2389 | = Gram-Calorie (Heat) |
| Ampere/Square Decimeter | × 9.29 | = Ampere/Square Foot |
| Ampere/Square Foot | × .108 | = Ampere/Square Decimeter |
| Ampere/Square Inch | × .0155 | = Abampere/Sq Centimeter |
| | × .155 | = Ampere/Sq Centimeter |
| | × 1550. | = Ampere/Sq Meter |
| | × 4647(5/o). | = Statampere/Sq Centimeter |
| Ampere/Square Meter | × .4/o1 | = Abampere/Sq Centimeter |
| | × .3/o1 | = Ampere/Sq Centimeter |
| | × .3/o6452 | = Ampere/Sq Inch |
| | × 299800. | = Statampere/Sq Centimeter |
| Ampere/Square Mil | × 155000. | = Ampere/Sq Centimeter |
| Ampere-Second | × Volt | = Joule |
| | × Volt | = Watt-Second |
| Ampere-Turn | × .1 | = Abampere-Turn |
| | × 1.2566 | = Gilbert |
| Ampere-Turn/Centimeter | × .1 | = Abampere-Turn/Centimeter |
| | × 2.540005 | = Ampere-Turn/Inch |
| | × 100. | = Ampere-Turn/Meter |

| | | |
|---|---|---|
| Ampere-Turn/Centimeter | × 1.2566 | = Gilbert/Centimeter |
| | × 1.2566 | = Oersted |
| Ampere-Turn/Inch | × .003937 | = Abampere-Turn/Centimeter |
| | × .3937 | = Ampere-Turn/Centimeter |
| | × 39.37 | = Ampere-Turn/Meter |
| | × .49474 | = Gilbert/Centimeter |
| | × .49474 | = Oersted |
| Ampere-Turn/Meter | × .001 | = Abampere-Turn/Centimeter |
| | × .01 | = Ampere-Turn/Centimeter |
| | × .0254 | = Ampere-Turn/Inch |
| | × .01257 | = Gilbert/Centimeter |
| | × .01257 | = Oersted |
| Angstrom | × .7/o1 | = Centimeter |
| | × .8/o3937 | = Inch |
| | × .003937 | = Micro-Inch |
| | × .0001 | = Micron |
| | × .6/o1 | = Millimeter |
| Angstrom | × 10. | = Millimicron |
| Annulus: Large Diam Squared(−)Small Diam Squared | × .7854 | = Area |
| Large Radius Squared(−)Small Radius Squared | × 3.1416 | = Area |
| Antimonic: Sb: | = +5 | = Valence |
| Antimony: (Sb) #51:121.76 AW: Val. +3: | | |
| Cubic Foot | × 415. | = Pound at 68F |
| API Degree | + 131.5 | = 141.5/(Spg 60/60F) |
| Apostilb (asb) | × .3/o3183 | = Stilb |
| (German-Hefner) | × .09 | = Millilambert |
| (International) | × .1 | = Millilambert |
| Ar | × 1.0 | = Are |
| Arc Degree × Radius | × .017453292 | = Arc Length |
| Arc Minute × Radius | × .000290888 | = Arc Length |
| Arc Second × Radius | × .5/o4848 | = Arc Length |
| Are | × .0247104 | = Acre |
| | × 1.0 | = Ar |
| | × .01 | = Hectare |
| | × 1. | = Square Decameter |
| | × 1076.39 | = Square Feet |
| | × 100. | = Square Meter |
| | × 3.954 | = Square Rod |
| | × 119.6 | = Square Yard |
| Argon: (A): #18:39.944 AW: | | |
| Cubic Foot | × .11135 | = Pound 32F |
| Liter | × 1.7837 | = Gram 32F |
| Arsenate: $AsO_4$: | = −3 | = Valence |
| Arsenic: (As): #33:74.91 AW: Val. +5: | | |
| Arsenite: $AsO_3$: | = −3 | = Valence |
| Arsenous: As: | = +3 | = Valence |
| Asbestos: Cubic Foot | × 125 to 175 | = Pound |
| Density: Cubic Centimeter | × 2 to 2.8 | = Gram |
| Specific Heat | = .25 | = Btu/Pound/°F |
| Thermal Conductivity | = .29 | = Btu/Hr/Sqft/°F/Inch |
| Asheville N.C. Heating Load | = 4410. | = Degree-Day |
| Asphalt: Density: Cubic Centimeter | × 1.1 to 1.5 | = Gram |
| Cubic Foot | × 69 to 94 | = Pound |
| Specific Heat | = .55 | = Btu/Pound/°F |
| Assay-Ton | × 450.0999 | = Grain Troy |
| | × 29.166 | = Gram |
| | × 29166.66 | = Milligram |
| Atlanta Heating Load | = 2880. | = Degree-Day |
| Atmosphere (at): 32FHg76cm: | × 1.0332 | = Atmosphere Metric |
| | × 1013250. | = Barye |
| | × 1.01321 | = Bar |
| | × 76.018 | = Centimeter Mercury 32F |
| | × 1013250. | = Dyne/Sq Centimeter |
| | × 27801. | = Feet Column of Air |
| | × 33.899 | = Feet Water 39.2F |
| | × 33.93 | = Feet Water 59F |

# A — CONVERSION FACTORS

| | | |
|---|---|---|
| Atmosphere (at): 32FHg76cm: | × 1033.228 | = Gram/Sq Centimeter |
| | × 29.921 | = Inch Mercury 32F |
| | × 406.785 | = Inch Water 39.2F |
| | × 407.14 | = Inch Water 59F |
| | × 10332.3 | = Kilogram-Force/Sq Meter |
| | × .03734 | = Kilogram-Slug/Cubic Meter |
| | × 1.03323 | = Kilogram/Sq Centimeter |
| | × 1.01325 | = Megabar |
| | × 1.01325 | = Megadyne/Sq Centimeter |
| | × .76018 | = Meter Mercury 32F |
| | × 10.34 | = Meter Water 59F |
| | × 760.18 | = Millimeter Mercury 32F |
| | × 101325. | = Newton/Square Meter |
| | × 2116.3536 | = Pound/Sqft |
| | × 14.6969 | = Pound/Sqin |
| | × 1.0581768 | = Ton Short/Sqft |
| Atmosphere: 59F: | × 1.25 | = Kilogram/Cubic Meter |
| Mass Density | = .002378 | = Slug/Cubic Foot |
| Atmosphere: 62F: | × 33.947 | = Feet Water |
| | × 30.011 | = Inch Mercury |
| Atmosphere (Kgf/Sq Cm) | × 98.0665 | = Kilopascal |
| Atmosphere (760 Torr) | × 101.324997 | = Kilopascal |
| Atmosphere Metric | × .9678 | = Atmosphere 32F:Hg76cm |
| | × 32.84 | = Feet Water 59F |
| | × 28.96 | = Inch Hg 32F |
| | × 394.1 | = Inch Water 59F |
| | × 1.0 | = Kilogram/Sq Centimeter |
| | × .9807 | = Megabar |
| | × .9807 | = Megadyne/Sq Centimeter |
| | × .7356 | = Meter Hg 32F |
| | × 10.01 | = Meter Water 59F |
| | × 14.22 | = Pound/Square Inch |
| | × 1.024 | = Ton Short/Square Foot |
| Atmosphere Practical | × 1.0 | = Atmosphere Metric |
| | × 1.0 | = Kg-Force/Sq Centimeter |
| Atmospheric Pressure | + Gage Pressure | = Absolute Pressure |
| | - Vacuum Pressure | = Absolute Pressure |
| Attic Louvre:"Squares" of Floor Space | × 1.0 | = Sqft of Ventilation Needed |
| Automobile: Free Running: Ton Weight | × 35. | = Pound Drag @ 10 mph |
| | × 100 to 300 | = Pound Drag @ 20-30 mph |
| Mile/Hour Squared | × .05 | = Feet Stopping Distance |

# B

| | | |
|---|---|---|
| B | × 1.3.0 | = Btu |
| Backfill By Hand: Cubic Yard | × .6 | = Man-Hour Average Soil |
| | × .7 | = Man-Hour Clay |
| | × .5 | = Man-Hour Sand or Loam |
| Bakelite: Specific Heat | = .35 | = Btu/Pound/°F |
| Ball: Diameter Cubed | × .5236 | = Cubic Volume |
| Baltimore Heating Load | = 4600. | = Degree-Day |
| Bar | × .9869 | = Atmosphere 76cm 32F |
| | × 14.504 | = Pound/Square Inch |
| | × 100 | = Kilopascal |
| Barrel | × 31. | = Gallon (Obsolete) |
| Barrel British | × 36. | = Gallon British |
| Barrel Or Cask:Mean Diam In × Height In | × .0034 | = Gallon Liquid US |
| Barrel (42) | × 1. | = API Barrel |
| | × 4666600. | = Btu (Common) |
| | × 5.614583 | = Cubic Feet |
| | × 4800. | = Cubic Feet Gas (Evaporated) |
| | × 9702.0288 | = Cubic Inch |
| | × .20795 | = Cubic Yard |
| | × 42. | = Gallon (API Standard) |
| | × 1. | = Oil Barrel |
| | × 336. | = Pint |
| | × 273 to 300 | = Pound (273 Common) |
| | × 168. | = Quart |

| | | |
|---|---|---|
| Barrel (42)/Day | × 1.75 | = Gallon/Hour |
| | × .0291666 | = Gallon/Minute |
| | × .0004861111 | = Gallon/Second |
| Barrel (42)/Hour | × .0935763 | = Cubic Feet/Minute |
| | × 2.6949974 | = Cubic Inch/Second |
| | × .7 | = Gallon/Minute |
| Barrel US (bbl) | × ? | = Has No Legal Value |
| | × 119241.2 | = Cubic Centimeter |
| | × 4.21094 | = Cubic Feet |
| | × 7276.5 | = Cubic Inch |
| | × .1192412 | = Cubic Meter |
| | × 31.5 | = Gallon (Customary) |
| | × 27.070 | = Gallon Dry US |
| | × 1008. | = Gill |
| | × 119.24 | = Liter |
| | × 252. | = Pint |
| | × 126. | = Quart |
| | × 108.28 | = Quart Dry US |
| Barrel US/Day | × 1.3125 | = Gallon/Hour |
| | × .029166 | = Gallon/Minute |
| | × .0003646 | = Gallon/Second |
| Barrel US Standard Cube | × 7161.15642187 | = Cubic Inch |
| | × 31.5 | = Gallon Liquid US |
| | = 19.275 | = Inch On Each Side |
| Barn | × .23/o1 | = Square Centimeter |
| Barye | × .5/o1 | = Bar |
| | × 1.0 | = Dyne/Sq Centimeter |
| Bathroom Heater | = 1000 to 1500 | = Watt Avg Use |
| Bau | × 1.0 | = BA Unit |
| | × .988 | = Ohm Absolute |
| Beam: Cantilever: Con. Load: Lb × Inch Span | × 1.0 | = Inch-Lb (MaxMoment) |
| Cantilever: Uniform: Lb × Inch Span | × .5 | = Inch-Lb (MaxMoment) |
| Length Inch (No Side Sway Support) | = Inch Width | × Slenderness Ratio |
| Pipe-Tube: Diam. Squared × Thickness | × .8 | = Section Modulus |
| Rectangular: Width × Depth Squared | × .1666 | = Section Modulus |
| Section Modulus | × Unit Stress | = Inch-Pound Moment |
| Simple: Center Load: Lb × Inch Span | × .25 | = Inch-Lb (MaxMoment) |
| Simple: Uniform Load: Lb × Inch Span | × .125 | = Inch-Lb (MaxMoment) |
| Solid Round: Diameter Cubed | × .1 | = Section Modulus |
| Steel: Section Modulus | × 20000. | = Internal Resisting Moment |
| Width Inch | × 40. | = Max Length Unbraced Span |
| (−320 × Slenderness Ratio) | + 24800. | = psi Safe Unit Stress |
| Bel | × 10. | = Decibel |
| | × 1.0 | = Sound Intensity Unit |
| Belt: Flat: On Iron Pulley | = .30 | = Friction Coefficient |
| Foot Diameter × rpm | × 3.1416 | = Feet/Minute Belt Speed |
| Inch Diameter × rpm | × .261789 | = Feet/Minute Belt Speed |
| Tight-Slack Pound Tension Diff × fpm | × .4/o30303 | = Horsepower |
| Benzene Gas (60F-30"Hg): | = 2.696 | = Specific Gravity (Air = 1) |
| Cubic Feet | × 3744. | = Btu Gross Combustion Heat |
| | × 35.9 | = Cuft Air for Combustion |
| | × .2064 | = Pound |
| Cuft Mixed Air-Gas | × 101.55 | = Btu Gross Combustion Heat |
| Flame Temperature | = 3765. | = Degree F Maximum |
| Pound | × 17986. | = Btu Gross Combustion Heat |
| | × 4.85 | = Cubic Feet |
| | × 13.306 | = Pound Air For Combustion |
| Benzine: 68F: Cubic Foot | × 56.1 | = Pound |
| Gallon | × 7.5 | = Pound |
| Berkovetz | × 400. | = Funt |
| | × 163.80 | = Kilogram |
| | × 10. | = Pood |
| Beryllium: (Be) #4:9.02 AW: | | |
| Bicarbonate: $HCO_3$: | =-1 | = Valence |
| Billion | × 1. | = Milliard |
| | × .001 | = Trillion |

| | | |
|---|---|---|
| Birmingham Heating Load | = 2530. | = Degree-Day |
| Bismarck S.D. Heating Load | = 8500. | = Degree-Day |
| Bismuth: (Bi): #83:209.00 AW: Val. +3: | | |
| Bisulfate: $HSO_4$: | = -1 | = Valence |
| Bisulfate: $HSO_3$: | = -1 | = Valence |
| Blanket Electric: | = 200 | = Watt Avg Use |
| Block: Cinder: 8x8x16: Block | × 25 to 35 | = Pound (40-50% Hollow) |
| Conductivity | × .62 | = Btu/Hr/Sqft/°F/8" |
| Resistivity | = 1.61 | = Btu/Hr/Sqft/°F/8" |
| Concrete: 8x8x16: Blocks | × 40 to 50 | = Pound (40-50% Hollow) |
| | × .05225 | = Cubic Foot Mortar |
| Sqft Wall | × 1.125 | = Blocks Required |
| Conductivity | = 1.00 | = Btu/Hr/Sqft/°F/8" |
| Resistivity | = 1.00 | = Btu/Hr/Sqft/°F/8" |
| Block, Rope: Inch Shell Length | × .125 | = Inch Diameter Rope to Use |
| Bluestone: Cubic Foot | × 151. | = Pound |
| Ton | × 13.2 | = Cubic Feet |
| Board-Foot (BF) | × 2359.7513 | = Cubic Centimeter |
| | × .0833 | = Cubic Foot |
| | × 144. | = Cubic Inch |
| | × 1.0 | = Foot Board Measure |
| Boiler: Plate TS psi × Inch Plate Thick | × .333 | = psi Safe WkPress × In Boiler Diam |
| Boiler: Square Feet of Grate | × 12. | = Pound Coal/Hour |
| Bolt | × 120. | = Feet |
| | × 36.576 | = Meter |
| | × 40. | = Yard |
| Boron: (B): #5:10.82 AW: Val. +3: | | |
| Boston Heating Load | = 6050.0 | = Degree-Day |
| Bougie Decimales | × .96 | = Candle English |
| | × .95 | = Candle German |
| | × 1.00 | = Candle International |
| | × .104 | = Carcel |
| | × 1.11 | = Hefner |
| | × .10 | = 10-cp Pentane |
| Bouyancy: Drill Mud Lb/cuft × Pipe Wgt Lb/Ft | × .002 | = Bouyancy Factor |
| Drill Pipe: Pound/Foot | × .06 to .13 | = Pound/Foot (In Fluid) |
| Brass: 68F: Cubic Foot | × 527. | = Pound |
| Linear Expansion: Inch | × 9.6 | = Micro-Inch/Degree F |
| Specific Heat | = .09 to .11 | = Btu/Pound/°F |
| Brick: Backing Stonework: Bricks | × .009 | = Mason-Hr(Cement Mortar) |
| | × .0078 | = Mason-Hr(Lime Mortar) |
| Common: Bricks | × .037 | = Cubic Foot Volume |
| Conductivity | = 5.00 | = Btu/Hr/Sqft/°F/Inch |
| Cubic Foot | × 120. | = Pound |
| Eastern: Bricks | × 65.4 | = Cuin (7.75×3.75×2.25) |
| Resistivity | = .20 | = Btu/Hr/Sqft/°F/Inch |
| Western: Bricks | × 87.6 | = Cuin (8.5×4.125×2.5) |
| Culling: Number Bricks | × .005 | = Man-Hour |
| Enamelled: Bricks | × 74.3 | = Cuin (8.25×4×2.25) |
| Sqft Wall | × 6.9 | = Bricks |
| Facework: Bricks | × .0068 | = Laborer-Hour |
| Plain Cut Jt :Bricks | × .0155 | = Mason-Hr(FlemBond-CemMort) |
| | × .0148 | = Mason-Hr(FlemBond-LimeMort) |
| | × .0112 | = Mason-Hr(RunBond-CemOrLimeMort) |
| Rake Out(RO) :Bricks | × .02 | = Mason-Hr(FlemBond-CemMort) |
| | × .0195 | = Mason-Hr(FlemBond-LimeMort) |
| | × .0142 | = Mason-Hr(RunBond-CemMort) |
| | × .0136 | = Mason-Hr(RunBond-LimeMort) |
| Rodded :Bricks | × .0225 | = Mason-Hr(FlemBond-CemMort) |
| | × .0215 | = Mason-Hr(FlemBond-LimeMort) |
| RO-Strike Smooth: Bricks | × .0213 | = Mason-Hr(FlemBond-CemMort) |
| | × .0205 | = Mason-Hr(FlemBond-LimeMort) |
| | × .0154 | = Mason-Hr(RunBond-CemMort) |
| | × .0148 | = Mason-Hr(RunBond-LimeMort) |
| V Joint :Bricks | × .0167 | = Mason-Hr(FlemBond-CemMort) |
| | × .016 | = Mason-Hr(FlemBond-LimeMort) |

| | | |
|---|---|---|
| Brick:Facework:RO-Strike Smooth:Bricks | × .0142 | = Mason-Hr(RunBond-CemMort) |
| V Joint :Bricks | × .0136 | = Mason-Hr(RunBond-LimeMort) |
| Hoisting :Bricks | × .00015 | = Elevator-Hour/Story |
| Horse Scaffold :Linear Feet | × .085 | = Laborer-Hour(Erecting) |
| Lay Common: Bricks | × .0051 | = Laborer-Hour |
| (41/Wall-Inches) +4 | × Bricks/1000 | = Mason-Hr(Cement Mortar) |
| (30/Wall-Inches) +4 | × Bricks/1000 | = Mason-Hr(Lime Mortar) |
| Pole Scaffold :Linear Feet | × .140 | = Laborer-Hour(Erecting) |
| Pressed :Bricks | × 69.8 | = Cuin (8×3.875×2.25) |
| Sqft Wall | × 7. | = Bricks |
| Specific Heat | = .22 | = Btu/Pound/°F |
| Standard :Bricks | × 67.5 | = Cuin (8×3.75×2.25) |
| | × 4.1 | = Pound |
| Sqft Wall | × 7. | = Bricks |
| 12" Wall :Full Point In Inch | × .00114 | = Cuyd Mortar/Brick |
| | × 1.14 | = Cuyd Mortar/M-Brick |
| Wall:Cubic Feet | × 18. | = Bricks |
| Wash Down :Square Feet | × .01 | = Mason-Hour |
| | × .005 | = Laborer-Hour |
| Brinell Hardness Number on Steel | × 500. | = psi(Tensile Strength) |
| Bromine(Bromide):(Br):#35:79.916 AW: Val. -1: | | |
| Bronze: 68F: Cubic Foot | × 546. | = Pound |
| Linear Expansion: Inch | × 9.8 | = Micro-Inch/Degree F |
| Specific Heat | = .12 | = Btu/Pound/°F |
| Btu | × 1.0 | = British Thermal Unit |
| | × 251.996 | = Calorie IT |
| | × 252.161 | = Calorie Thermochemical |
| | × .001818 | = Cuft Manufactured Gas |
| | × .3/o8884 | = Cuft Natural Gas |
| | × 105487(5/o). | = Erg |
| | × 778.26 | = Foot-Pound-Force |
| | × 25040. | = Foot-Poundal |
| | × 251.99579 | = Gram-Calorie |
| | × 10756600. | = Gram-Centimeter |
| | × .0003984 | = Horsepower-Hour Metric |
| | × .000392943 | = Horsepower-Hour US |
| | × 9339.12 | = Inch-Pound-Force |
| | × 1055.40 | = Joule Absolute |
| | × 1054.886 | = Joule International |
| | × ,001 | = Kilo Btu/(kB) |
| | × ,25199579 | = Kilogram-Calorie |
| | × .000293018 | = Kilowatt-Hour |
| | × 107.566 | = Kilogram-Meter |
| | × 10.41 | = Liter-Atmosphere |
| | × 251.93 | = Mean Calorie |
| | × 2.5193 | = Ostwald Calorie |
| | × .0002988 | = Poncelet-Hour |
| | × .4/o7644 | = Pound Anthracite |
| | × .55555 | = Pound-Calorie |
| | × .55555 | = Pound-Chu |
| | × .3/o1598 | = Pound Dry Wood |
| | × .4/o5234 | = Pound Fuel Oil |
| | × .00103092 | = Pound Water Evap @ 212F |
| | × .4/o1 | = Therm |
| | × .293018 | = Watt-Hour International |
| | × 1054.866 | = Watt-Second |
| Btu (39.2F) | × 1060.4 | = Joule |
| (60F) | × 1054.6 | = Joule |
| (Mean) | × 779. | = Foot-Pound |
| (Mean) | × 1054.87 | = Joule |
| Btu/Cubic Foot | × 8.8987 | = Kilogram-Calorie/Cubic Meter |
| | × .0039 | = Kilogram-Calorie/Liter |
| Btu/Day/Square Foot | × .04167 | = Btu/Hr/Square Foot |
| | × .01130 | = Gram-Calorie/Hr/Sqcm |
| | × .5/o3139 | = Gram-Calorie/Sec/Sqcm |
| | × .4/o1314 | = Watt/Sqcm |

# CONVERSION FACTORS

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|---|---|---|
| Btu/Day/Square Foot/°F | × .04167 | = Btu/Hr/SqFt/°F |
| | × .02034 | = Gram-Calorie/Hr/Sqcm/°C |
| | × .5/o5651 | = Gram-Calorie/Sec/Sqcm/°C |
| | × .4/o2366 | = Watt/Sqcm/°C |
| Btu/Day/Square Foot/Inch/°F | × .04167 | = Btu/Hr/SqFt/Inch/°F |
| | × .00347 | = Btu/Hr/SqFt/Ft/°F |
| | × .05167 | = Gram-Calorie/Hr/Sqcm/cm/°C |
| | × .4/o1435 | = Gram-Calorie/Sec/Sqcm/cm/°C |
| | × .4/o6009 | = Watt/Sqcm/Cm/°C |
| Btu/Hour | × .21611 | = Foot-Pound/Second |
| | × .000392943 | = Horsepower |
| | × .0002930 | = Kilowatt |
| Btu/Hour/Square Foot | × 24. | = Btu/Day/SqFt |
| | × .2712 | = Gram-Calorie/Hr/SqFt |
| | × .4/o7535 | = Gram-Calorie/Sec/Sqcm |
| | × .0003154 | = Watt/Sqcm |
| Btu/Hour/Square Foot/°F | × 24. | = Btu/Day/SqFt/°F |
| | × .4882 | = Gram-Calorie/Hr/Sqcm/°C |
| | × .0001356 | = Gram-Calorie/Sec/Sqcm/°C |
| | × 1761. | = Thermal Ohm/Sq Centimeter |
| | × .0005678 | = Watt/Sqcm/°C |
| Btu/Hour-Square Foot-°F | × 1.0 | = Overall Heat Transfer Coeff |
| Btu/Hour/Square Foot/Foot/°F | × 288. | = Btu/Day/Sqft/In/°F |
| | × 14.88 | = Gram-Calorie/Hr/Sqcm/cm/°C |
| | × .004134 | = Gram-Calorie/Sec/Sqcm/cm/°C |
| | × 173. | = Kilo-Erg/Sec/Sqcm/cm/°C |
| | × .01731 | = Watt/Sqcm/cm/°C |
| Btu/Hour/Square Foot/Inch/°F | × 24.0 | = Btu/Day/Sqft/Inch/°F |
| | × 1.241 | = Gram-Calorie/Hr/Sqcm/cm/°C |
| | × .0003447 | = Gram-Cal/Sec/Sqcm/cm/°C |
| | × .6/o3447 | = Kilocalorie/Sec/Sqcm/cm/°C |
| | × .001441 | = Watt/Sqcm/cm/°C |
| Btu/Minute | × 1785(5/o). | = Erg/Second |
| | × 46681.68 | = Foot-Pound/Hour |
| | × 778.028 | = Foot-Pound/Minute |
| | × 12.9671 | = Foot-Pound/Second |
| | × .02389 | = Horsepower Metric |
| | × .0235766 | = Horsepower US |
| | × .252 | = Kilogram-Calorie/Second |
| | × .0175811 | = Kilowatt |
| | × 17.5811 | = Watt |
| Btu/Pound | × .5555 | = Kilogram-Calorie/Kilogram |
| | × .000645995 | = Watt-Hour/Pound |
| Btu/Pound/°F | × 1.0 | = Specific Heat Unit |
| × °F × Pound-Force | × Second Squared | = Btu × Foot |
| Btu/Second | × 2800900. | = Foot-Pound/Hour |
| | × 46681.68 | = Foot-Pound/Minute |
| | × 778.28 | = Foot-Pound/Second |
| | × 252.16 | = Gram-Calorie/Second |
| | × 1.43436 | = Horsepower Metric |
| | × 1.414596 | = Horsepower US |
| | × .252 | = Kilocalorie/Second |
| | × .25216 | = Kilogram-Calorie/Second |
| | × 107.58 | = Kilogram-Meter/Second |
| | × 1.05487 | = Kilowatt |
| | × 1.075745 | = Poncelet |
| | × 1054.87 | = Watt |
| Btu/Square Foot | × 2.712 | = Kilogram-Calorie/Sq Meter |
| Btu/Square Foot/°F Difference | × 4.882 | = Kg-cal/Sq Meter/°C Diff |
| Btu/Square Foot/Minute | × .0236 | = Horsepower US/Square Foot |
| | × .0176 | = Kilowatt/Square Foot |
| | × .122 | = Watt/Square Inch |
| Bucket (British Dry) | × 4. | = Gallon British |
| Buffalo N.Y. Heating Load | = 6750. | = Degree-Day |
| Bushel Heaped | × 1.25 | = Bushel US Struck |
| Bushel Imperial | × 1.03202 | = Bushel US Struck |

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|---|---|---|
| Bushel Imperial | × 36.3683904 | = Cubic Decimeter |
| | × 1.28431 | = Cubic Feet |
| | × 2219.28768 | = Cubic Inch |
| | × .0363683904 | = Cubic Meter |
| | × 8. | = Gallon Dry Imperial |
| | × 36.368 | = Liter |
| Bushel US | × .968972 | = Bushel Imperial |
| | × .0277 | = Chaldron |
| | × 35.2383 | = Cubic Decimeter |
| | × 1.24446 | = Cubic Feet |
| | × 2150.42688 | = Cubic Inch |
| | × .035238 | = Cubic Meter |
| | × .04609 | = Cubic Yard |
| | × 3.52383 | = Decaliter |
| | × 7.75178 | = Gallon Dry Imperial |
| | × 8. | = Gallon Dry US |
| | × 9.30920 | = Gallon Liquid US |
| | × .352383 | = Hectoliter |
| | × 35.2383 | = Liter |
| | × 1192. | = Ounce Fluid US Apoth |
| | × 4. | = Peck US |
| | × 64. | = Pint Dry US |
| | × 56. | = Pound Avoir: Corn |
| | × 32. | = Pound Avoir: Oat |
| | × 60. | = Pound Avoir: Potatoe |
| | × 60. | = Pound Avoir: Wheat |
| | × 32. | = Quart Dry US |
| | × 37.2368 | = Quart Liquid US |
| | = 8" × 18.5" | = Standard Cylinder Size |
| | × 1.0 | = US Standard Struck Bushel |
| | × 1.0 | = Winchester Struck Bushel |
| Butane Gas (60F-30" Hg) | = 2.067 | = Specific Gravity (Air = 1) |
| Cubic Feet | × 3267. | = Btu Gross Combustion Heat |
| | × 32.2 | = Cuft Air for Combustion |
| | × .1583 | = Pound |
| Cuft Mixed Air-Gas | × 101.32 | = Btu Gross Combustion Heat |
| Flame Temperature | = 3735. | = Degree F Maximum |
| Pound | × 21293. | = Btu Gross Combustion Heat |
| | × 6.32 | = Cubic Feet |
| | × 15.500 | = Pound Air For Combustion |
| Butt | × 4. | = Barrel (31.5) |
| | × 126. | = Gallon Liquid US |
| | × 4032. | = Gill |
| | × 2. | = Hogshead |
| | × 1008. | = Pint |
| | × 1. | = Pipe |
| | × 504. | = Quart |
| Butte Montana Heating Load | = 8260. | = Degree-Day |
| Butylene Gas (60F-30" Hg) | = 1.936 | = Specific Gravity (Air = 1) |
| Cuft Feet | × 3066. | = Btu Gross Combustion Heat |
| | × 29.6 | = Cuft Air for Combustion |
| | × .152 | = Pound |
| Cuft Mixed Air-Gas | × 107.27 | = Btu Gross Combustion Heat |
| Flame Temperature | = 3775. | = Degree F Maximum |
| Pound | × 20833. | = Btu Gross Combustion Heat |
| | × 6.74 | = Cubic Feet |
| | × 14.820 | = Pound Air for Combustion |

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|---|---|---|
| Cable British | × 608. | = Feet British |
| | × .1 | = Mile British Nautical |
| Cable Length US | × 120. | = Fathom US Navy |
| | × 720. | = Feet US Navy |
| | × 219.457 | = Meter |
| | × 960. | = Span |
| | × 240. | = Yard |

Cadmium: (Cd): #48:112.41 AW: Val. +2:

| | | |
|---|---|---|
| Calcium: (Ca): #20:40.08AW: Val.+2: | | |
| | × 2.50 | = Calcium Carbonate |
| Bicarbonate | × .617 | = Calcium Carbonate |
| Carbonate | × 1.06 | = Sodium Carbonate |
| Chloride | × .902 | = Calcium Carbonate |
| Hydroxide | × 1.35 | = Calcium Carbonate |
| Nitrate | × .610 | = Calcium Carbonate |
| Oxide | × 1.79 | = Calcium Carbonate |
| Sulfate | × .735 | = Calcium Carbonate |
| | × 1.04 | = Sodium Sulfate |
| Calorie (cal) | × 1.0 | = Calorie Small |
| | × 1.0 | = Gram-Calorie (see) |
| Calorie/Gram | × 1.8 | = Btu/Pound |
| | × 1.0 | = Chu/Pound |
| Calorie/(Gram | × °C) | = Btu/ (Pound × °F) |
| | × °C) | = Chu/ (Pound × °C) |
| Calorie/Gram-Mole | × 1.8 | = Btu/Pound-Mole |
| | × 1.0 | = Chu/Pound-Mole |
| Calorie/ (Gram-Mole | × °C) | = Btu/ (Pound-Mole × °F) |
| | × °C) | = Chu/ (Pound-Mole × °C) |
| Calorie: Human Weight in Pound | × .5 | = Calorie/Hour Basic Need |
| | × 3.5 | = Calorie/Hour Heavy Work |
| | × 1.25 | = Calorie/Hour Light Work |
| | × 2.0 | = Calorie/Hour Moderate Work |
| | × .7 | = Calorie/Hour Sitting |
| | × .8 | = Calorie/Hour Standing |
| | × 1.0 | = Calorie/Hour Walking |
| Calorie International Steam Table | × .001 | = Calorie IT |
| Calorie IT | × 1000. | = Calorie Int. Steam Table |
| | × 1.000654 | = Calorie Thermochemical |
| | × 4.18674 | = Joule Absolute |
| | × 4.18605 | = Joule International |
| | × 1.000654 | = Kilo-Calorie |
| | × 1.00037 | = Kilogram-Calorie Mean |
| | × .0011627907 | = Watt-Hour International |
| Calorie IT/Gram | × 1.8 | = Btu/Pound |
| Calorie Large | × 1.0 | = Kilogram-Calorie (See) |
| Calorie Mean (0-100C) | × .003969 | = Btu |
| | × 1.001 | = Calorie IT |
| | × 1.00024 | = Gram-Calorie |
| | × 1.0 | = Gram-Calorie Mean |
| | × .00100024 | = Kilogram-Calorie |
| | × .0099991 | = Ostwald Calorie |
| | × .00220499 | = Pound-Calorie |
| Calorie Thermochemical | × .0039657 | = Btu |
| | × .99935 | = Calorie IT |
| | × 41.2929 | = Cucm (Atmos) |
| | × .021430 | = Cuft-Pound (wt)/Sqin |
| | × 3.08595 | = Foot-Pound |
| | × .5/0155856 | = Horsepower-Hour |
| | × 4.1840 | = Joule Absolute |
| | × 4.1833 | = Joule International |
| | × .5/0116203 | = Kilowatt-Hour Int. |
| | × .0412917 | = Liter-Atmosphere |
| Candle | × 1.0 | = Candlepower |
| | × 1.0 | = Candle Standard |
| English | × 1.04 | = Bougie Decimales |
| | × .98 | = Candle German |
| | × 1.04 | = Candle International |
| | × .1 | = Carcel |
| | × 1.154 | = Hefner |
| | × .104 | = 10-cp Pentanes |
| German | × 1.055 | = Bougie Decimales |
| | × 1.02 | = Candle English |
| | × 1.055 | = Candle International |
| | × .109 | = Carcel |

| | | |
|---|---|---|
| Candle German | × 1.17 | = Hefner |
| | × .105 | = 10-cp Pentanes |
| International | × 1.00 | = Bougie Decimales |
| | × .96 | = Candle English |
| | × .95 | = Candle German |
| | × .104 | = Carcel |
| | × 1.11 | = Hefner |
| | × .10 | = 10-cp Pentanes |
| Lighted | = .1 | = Lumen/Watt |
| Standard | × 1.0 | = Candle |
| | × 1.0 | = Candlepower |
| Candle/Square Centimeter | × 1.0 | = Brightness Unit |
| | × 929. | = Candle/Sq Foot |
| | × 6.4516 | = Candle/Square Inch |
| | × 2919. | = Foot-Lambert |
| | × 3.1416 | = Lambert |
| | × 3141.6 | = Millilambert |
| | × 1.0 | = Stilb |
| Candle/Square Foot | × 3.1416 | = Foot-Lambert |
| Candle/Square Inch | × .1550 | = Candle/Square Centimeter |
| | × 144. | = Candle/Square Ft |
| | × 1550. | = Candle/Sq Meter |
| | × 452.39 | = Foot-Lambert |
| | × .48695 | = Lambert |
| | × .1550 | = Lumen/Sqcm/Steradian |
| | × 486.9 | = Millilambert |
| Candle/Square Meter | × .0001 | = Candle/Sq Centimeter |
| | × .0929 | = Candle/Sq Foot |
| | × .3/o645 | = Candle/Sq Inch |
| Candlepower (cp) | × 1.0 | = Candlepower Spherical |
| | × 1.0 | = Candle International |
| | × 12.56637 | = Lumen |
| | × 1.0 | = Luminous Intensity Unit |
| Candlepower: Mean Spherical | × 1.0 | = Candlepower |
| | × 12.56637 | = Lumen |
| Can Size: 8 oz. = 8 oz Weight | = 1.0 | = Cupful (See Cup) |
| No. 1 = 11 oz. Weight | = 1.333 | = Cupful |
| No. 1-1/2 = 16 oz. Weight | = 2.0 | = Cupful |
| No. 2 = 20 oz. Weight | = 2.5 | = Cupful |
| No. 2-1/2 = 28 oz Weight | = 3.5 | = Cupful |
| No. 3 = 33 oz. Weight | = 4.0 | = Cupful |
| Cantar (Egypt) | × 99.045 | = Pound |
| Cape-Foot | × 1.033 | = Feet British |
| Carat: Gold Fineness Measure | × .041666 | = Parts Gold |
| Carat: International | × 3.08647127 | = Grain |
| | × .2 | = Gram |
| | × 200. | = Milligram |
| | × .007042 | = Ounce |
| | × 4. | = Pearl Grain |
| | × .3/o441 | = Pound |
| Carbide: C: | = -4 | = Valence |
| Carbon: (C): #6:12.010 AW: .16 Sp Ht: Val. +4: | | |
| Solid: Cubic Foot | × 145. | = Pound |
| Pound | × .0069 | = Cubic Foot |
| Carbonate: $CO_3$: | = -2 | = Valence |
| Carbon Dioxide (32F-30"Hg). Cubic Foot | × .123409 | = Pound (Spg 1.5289) |
| Pound | × 8.103 | = Cubic Feet |
| (60F-30"Hg). Cubic Foot | × .116 | = Pound (Spg 1.5289 Air = 1) |
| Pound | × 8.54 | = Cubic Feet |
| Carbon Monoxide (32F 30"Hg): Cubic Foot | × .07806 | = Pound |
| Pound | × 12.811 | = Cubic Feet |
| (60F-30"Hg): Cubic Foot | × 310.6 | = Btu Gross Combustion Heat |
| | × 2.4 | = Cuft Air for Combustion |
| | × .07405 | = Pound (Spg. 9671 Air = 1) |
| Cuft Mixed Air-Gas | × 95.25 | = Btu Gross Combustion Heat |
| Flame Temperature | = 3850. | = Degree F Maximum |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Carbon Monoxide Pound | × 4362. | = Btu Gross Combustion Heat |
| | × 13.50 | = Cubic Feet |
| | × 2.471 | + Pound Air for Combustion |
| Carboy | × 5. | = Gallon |
| Carcel | × 9.61 | = Bougie Decimales |
| | × 9.24 | = Candle English |
| | × 9.19 | = Candle German |
| | × 9.61 | = Candle International |
| | × 10.66 | = Hefner |
| | × .96 | = 10-cp Pentanes |
| Casing: Base Area | × Height | = Volume (See Pipe-Tubing) |
| Base Perimeter | × Height | = Lateral Area |
| Circumference Squared × Height | × .07957747 | = Volume |
| Diameter Foot × Foot High | × 3.1416 | = Sqft Lateral Area |
| | × 452.389248 | = Sqin Lateral Area |
| Diameter Foot × Inch High | × .2617989 | = Sqft Lateral Area |
| | × 37.69908 | = Sqin Lateral Area |
| Diameter × Height | × 3.1416 | = Lateral Area |
| Diameter Inch × Foot High | × .2617989 | = Sqft Lateral Area |
| | × 37.69908 | = Sqin Lateral Area |
| Diameter Inch × Inch High | × .021816 | = Sqft Lateral Area |
| | × 3.1416 | = Sqin Lateral Area |
| Diameter Squared Foot × Foot High | × .139885 | = Barrel (42) |
| | × .785398 | = Cubic Foot |
| | × 1357.168 | = Cubic Inch |
| | × 5.8752 | = Gallon US |
| Diameter Squared Foot × Inch High | × .01165 | = Barrel (42) |
| | × .06542 | = Cubic Foot |
| | × 113.09734 | = Cubic Inch |
| | × .489597 | = Gallon US |
| Diameter Squared × Height | × .7854 | = Volume |
| Diameter Squared Inch × Foot High | × .0009714234 | = Barrel (42) |
| | × .005454 | = Cubic Foot |
| | × 9.4247784 | = Cubic Inch |
| | × .0408 | = Gallon US |
| Diameter Squared Inch × 100 Foot | × .0971428 | = Barrel (42) |
| Diameter Squared Inch x 1000 Foot | × .971428 | = Barrel (42) |
| Diameter Squared Inch × Inch High | × .4/o8095195 | = Barrel (42) |
| | × .00045451 | = Cubic Foot |
| | × .785398 | = Cubic Inch |
| | × .0034 | = Gallon US |
| | × .000431 | = Sack Cement |
| Diameter Squared Inch × Foot High | × .005177 | = Sack Cement |
| Diameter Squared Foot × Inch High | × .06206 | = Sack Cement |
| × Foot High | × .74613 | = Sack Cement |
| Inside Radius × Height | × 6.28318 | = Area Internal |
| Outside Radius × Height | × 6.28318 | = Area External |
| Radius × Height | × 6.28318 | = Lateral Area |
| Radius Squared × Height | × 3.1416 | = Volume |
| Screw: Number Joints × (Inch Diam | × .1) +2.3 | = Inch Make-Up Loss |
| Cast Iron: Cubical Expansion | = 18. | = Parts/Million/°F |
| Linear Expansion | = 5.9 | = Parts/Million/°F |
| Cement: 1:1-1/2:3. Watertight Sack | × 3.5 | = Cuft Concrete (Rich) |
| 1:2 :4. Floor-Beam Sack | × 4.5 | = Cuft Concrete (Standard) |
| 1:2-1/2:5. Wall Sack | × 5.4 | = Cuft Concrete (Medium) |
| 1:3 :6. Mass Work Sack | × 6.5 | = Cuft Concrete (Lean) |
| Gun: Sand Blasting: Square | × .4 | = Cuyd Sand Used |
| Hour | × 100. | = Square Feet Cleaned |
| Gun Work: Each Coat | × .375 | = Inch Maximum Thickness |
| Hour | × 300 to 1200 | = Square Feet/Coat |
| Mix: Percent Water by Weight | × 1.5075 | = Cuft Water/Sack |
| | × 11.275 | = Gallon Water/Sack |
| | × 94. | = Pound Water/Sack |
| Natural: Barrel | × 282. | = Pound (Legal) |
| | × 3. | = Sack Cement |
| Sack | × 94. | = Pound (Legal) |

| | | |
|---|---|---|
| Cement: Plaster: Pound Cement | × .05 to .1 | = Pound Lime to Add |
| Sack Cement | × .125 | × Bushel Hair to Add |
| Portland: Barrel | × .140212 | = Cubic Yard |
| | × 380. | = Pound (Common) |
| | × 376. | = Pound (Legal) |
| | × 4. | = Sack Cement |
| Cubic Foot | × 99.32 | = Pound |
| Loose: Cubic Foot | × 70 to 90 | = Pound |
| Packed: Cubic Foot | × 100 to 118 | = Pound |
| Sack | × .25 | = Barrel Cement |
| | × .94644 | = Cubic Foot (Actual) |
| | × 1.1 | = Cubic Feet Concrete |
| | × 1.0 | = Cubic Foot (Common) |
| | × .035053 | = Cubic Yard |
| | × 94. | = Pound (Legal) |
| Cent Copper US | × 48. | = Grain |
| Cental | × 1. | = Centner |
| | × 1. | = Hundredweight Short |
| | × 100. | = Pound |
| Centare | × 1. | = Centi-are |
| | × 10.764 | = Square Feet |
| | × 1550. | = Square Inch |
| | × 1. | = Square Meter |
| Centi | × .01 = $10^{-2}$ | = One-Hundredth |
| Centiare (ca) | × 1. | = Centare |
| | × 1550. | = Square Inch |
| Centigrade Degree | + 273.16 | = Degree Centigrade Absolute |
| | × .8 | = Degree Reaumur |
| | + 273.16 | = Kelvin Degree |
| (Degree | × 1.8) +32° | = Degree Fahrenheit |
| Centigram (cg) | × .15432356 | = Grain |
| | × .01 | = Gram |
| | × 10. | = Milligram |
| Centiliter (cl) | × .610270515 | = Cubic Inch |
| | × .01 | = Liter |
| | × 10. | = Milliliter |
| | × .33815 | = Ounce Fluid |
| | × .018 | = Pint Liquid US |
| Centimeter (cm) | × 1(8/o). | = Angstrom |
| | × .0004971 | = Chain Gunter |
| | × .0328083 | = Foot |
| | × .393700 | = Inch |
| | × .4/o1 | = Kilometer |
| | × .01 | = Meter |
| | × 10000. | = Micron |
| | × 393.7 | = Mil |
| | × .5/o54 | = Mile Nautical |
| | × .5/o6214 | = Mile Statute US |
| | × 10. | = Millimeter |
| | × 1(7/o). | = Millimicron |
| | × .0019884 | = Rod |
| | × .0109361114 | = Yard |
| Centimeter/Second | × 1.9684998 | = Feet/Minute |
| | × .0328083 | = Feet/Second |
| | × .036 | = Kilometer/Hour |
| | × .0006 | = Kilometer/Minute |
| | × 1.0 | = Kine |
| | × .01943 | = Knot/Hour |
| | × .6 | = Meter/Minute |
| | × .01 | = Meter/Second |
| | × .02237 | = Mile/Hour |
| | × .4/o62137 | = Mile/Second |
| Centimeter/Second/Second | × 1.0 | = Centimeter/Second Squared |
| | × .03281 | = Feet/Second/Second |
| | × .036 | = Kilometer/Hour/Second |
| | × .01 | = Meter/Second/Second |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Centimeter Squared/Second | × .02237 | = Mile Statute US/Hour/Second |
| | × 1.0 | = Dittusion Coefficient |
| Centipoise | × .01 | = Dyne-Second/Sq Centimeter |
| | × 100. | = Dyne-Second/Sq Meter |
| | × .0645 | = Dyne-Second/Sq Inch |
| | × 9.2903 | = Dyne-Second/Sq Foot |
| | × .01 | = Gram-Mass/Centimeter-Second |
| | × .6 | = Gram-Mass/Centimeter-Minute |
| | × 36. | = Gram-Mass/Centimeter-Hour |
| | × .00010194 | = Kilogram-Force-Second/Sq Meter |
| | × .4/o1 | = Kilogram-Mass/Centimeter-Second |
| | × .001 | = Kilogram-Mass/Meter-Second |
| | × .06 | = Kilogram-Mass/Meter-Minute |
| | × 3.6 | = Kilogram-Mass/Meter-Hour |
| | × .01 | = Poise |
| | × .0002247 | = Pound-Force-Second/Sq Meter |
| | × .6/o145 | = Pound-Force-Second/Sq Inch |
| | × .4/o209 | = Pound-Force-Second/Sq Foot |
| | × .8/o242 | = Pound-Force-Minute/Sq Inch |
| | × .6/o348 | = Pound-Force-Minute/Sq Foot |
| | × .6/o2204 | = Pound-Mass/Centimeter-Second |
| | × .4/o56 | = Pound-Mass/Inch-Second |
| | × .000672043 | = Pound-Mass/Foot-Second |
| | × .4/o1322 | = Pound-Mass/Centimeter-Minute |
| | × .00336 | = Pound-Mass/Inch-Minute |
| | × .04032 | = Pound-Mass/Foot-Minute |
| | × .4/o7837 | = Pound-Mass/Centimeter-Hour |
| | × .2016 | = Pound-Mass/Inch-Hour |
| | × 2.4193548 | = Pound-Mass/Foot-Hour |
| | × .6/o2204 | = Poundal-Second/Sq Centimeter |
| | × .4/o56 | = Poundal-Second/Sq Inch |
| | × .000672043 | = Poundal-Second/Sq Foot |
| | × .4/o1322 | = Poundal-Minute/Sq Centimeter |
| | × .00336 | = Poundal-Minute/Sq Inch |
| | × .04032 | = Poundal-Minute/Sq Foot |
| | × .4/o7837 | = Poundal-Hour/Sq Centimeter |
| | × .2016 | = Poundal-Hour/Sq Inch |
| | × 2.4193548 | = Poundal-Hour/Sq Foot |
| | × Rhe | = .01 |
| Centistere | × .01 | = Stere |
| Centistoke | × Density | = Centipoise |
| | × spg | = Centipoise |
| | × 1.0 | = Kine |
| | (See pg. 163) | = Saybolt Second |
| | × .01 | = Square Centimeter/Second |
| | × .4/o1076 | = Square Feet/Second |
| | × .001550 | = Square Inch/Second |
| | × .01 | = Stoke |
| Centner | × 1. | = Cental |
| | × 1. | = Hundredweight Short |
| | × 100. | = Pound |
| | × 100. | = Skalpund |
| Century | × 100. | = Years |
| Cerium: (Ce):#58:140.13 AW: | | |
| Cesium: (Cs): #55:132.91 AW: | | |
| Chain: | × 25. | = Fathom |
| Engineer | × 100. | = Feet |
| | × 30.480 | = Meter |
| Gunter | × 2012. | = Centimeter |
| | × 66. | = Feet |
| | × .1 | = Furlong |
| | × 792. | = Inch |
| | × .0212 | = Kilometer |
| | × 100. | = Link |
| | × 20.11684 | = Meter |
| | × .01085 | = Mile Nautical US |

| | | |
|---|---|---|
| Chain: Gunter | × .0125 | = Mile Statute US |
| | × 4. | = Perch-Pole-Rod |
| | × 22. | = Yard |
| Philadelphia Standard | × 100.25 | = Feet |
| | × 30.556 | = Meter |
| Chaldron | × 36. | = Bushel |
| Charleston S. C. Heating Load | = 1770. | = Degree-Day |
| Charleston W. V. Heating Load | = 3790. | = Degree-Day |
| Chat: Cubic Yard | × 2400. | = Pound (Common) |
| Cheval-Vapeur | × .9863 | = Horsepower US |
| | × 75. | = Kilogram-Meter/Second |
| | × 1.0 | = Metric Horsepower |
| | × 1.0 | = Pferde Starke |
| Chicago Heating Load | = 6000. | = Degree-Day |
| Chlorate: $ClO_3$: | = -1 | = Valence |
| Chloride: Cl: | = -1 | = Valence |
| Chlorine: (Cl):#17:35.457 AW: Val.-1: | | |
| Chromate: $CrO_4$: | = -2 | = Valence |
| Chromic: Cr: | = +3 | = Valence |
| Chromium: (Cr):#24:52.01 AW: | | |
| Chu | × 1.8 | = Btu |
| | × 1.0 | = Centigrade Heat Unit |
| | × 454. | = Gram-Calorie |
| | × 1.0 | = Pcu |
| Chu/Pound | × 1.8 | = Btu/Pound |
| | × 1.0 | = Pound-Centigrade Heat Unit |
| Chu/Pound-Mole | × 1.8 | = Btu/Pound-Mole |
| Circle | = 360. | = Degree |
| | = 400. | = Grade |
| | = 21600. | = Minute |
| | = 4. | = Quadrant |
| | = 6.283185 | = Radians |
| | = .002778 | = Reciprocal of 1/360 |
| | = 1296000. | = Second |
| | = 6. | = Sextant |
| | = 12. | = Sign |
| Circle: Arc Degree × Radius | = 57.29578 | × Arc Length |
| Arc Degree × Radius Squared | × .008273648 | = Area Sector |
| Arc Length × Radius | × .5 | = Area Sector |
| Area | × 1.2732 | = Area Circumscribed Square |
| | × .63662 | = Area Inscribed Square |
| Area × Arc Degree | × .002777 | = Area Sector |
| Circle: Circumference | × .3183098 | = Diameter |
| | × 1.12838 | = Perimeter of Equal Square |
| | × 6.283185 | = Radian |
| | × .159155 | = Radius |
| | × .28209 | = Side Equal Square |
| | × .22508 | = Side Inscribed Square |
| Circumference × Diameter | × .25 | = Area |
| Circumference Feet | × 3.8197 | = Inch Diameter |
| Circumference × Radius | × .5 | = Area |
| Circumference Squared | × .079577 | = Area |
| Circle: Diameter | × 3.1416 | = Circumference |
| | × .88623 | = Side Equal Square |
| | × .86603 | = Side Equilateral Triangle |
| | × .70711 | = Side Inscribed Square |
| | × .7854 | = Side of Square of Eq. Perim. |
| Diameter × Circumference | × .25 | = Area |
| Diameter 64th Inch | × .04909 | = Inch Circumference |
| 32nd Inch | × .09818 | = Inch Circumference |
| 16th Inch | × .19635 | = Inch Circumference |
| 8th Inch | × .39270 | = Inch Circumference |
| 4th Inch | × .7854 | = Inch Circumference |
| Half Inch | × 1.5708 | = Inch Circumference |
| Inch | × 3.1416 | = Inch Circumference |
| Inch | × .261799 | = Foot Cifcumference |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Circle: Diameter Inch Squared | × .0054541 | = Sqft Area |
| | × .785398 | = Sqin Area |
| Diameter Squared | × .785398 | = Area |
| Squared in Mils | × 1.0 | = Circular Mil |
| Circle: Minute | × 60. | = Second |
| Circle: Quadrant | × 90. | = Degree |
| | × 3. | = Sign |
| Circle: Radius | × 6.28318 | = Circumference |
| | × 2. | = Diameter |
| × Arc Degree | × .01745467 | = Arc Length |
| × Arc Minute | × .0002909 | = Arc Length |
| × Arc Second | × .5/o488833 | = Arc Length |
| × Circumference | × .5 | = Area |
| Squared | × 3.1416 | = Area |
| Squared × Included Angle | × .0087273648 | = Sector Area |
| Circle: Side of Equal Square | × 3.545 | = Circumference Equal Circle |
| | × 1.12837 | = Diameter Equal Circle |
| Inscribed Square | × 4.4428 | = Circumference |
| | × 1.41421 | = Diameter |
| Square | × 1.27324 | = Circle Diam. of Equal Perimeter |
| Sign | × 30. | = Degree |
| Square Root of Area | × 3.5449 | = Circumference |
| | × 1.12838 | = Diameter |
| | × .564189 | = Radius |
| Circular: Acre | = 235.504 | = Feet Diameter |
| 1/4 Acre | = 117.752 | = Feet Diameter |
| 1/2 Acre | = 166.527 | = Feet Diameter |
| 2-1/2 Acre | = 372.339 | = Feet Diameter |
| Circular Centimeter | × .1550 | = Circular Inch |
| | × 155000. | = Circular Mil |
| | × 100. | = Circular Millimeter |
| | × .785398 | = Square Centimeter |
| | × .121736 | = Square Inch |
| | × 78.5398 | = Square Millimeter |
| Circular Foot | × 929.034 | = Circular Centimeter |
| | × 144. | = Circular Inch |
| | × 729.662 | = Square Centimeter |
| | × .785398 | = Square Foot |
| | × 113.097 | = Square Inch |
| Circular Inch | × 6.45163 | = Circular Centimeter |
| | × .00694444 | = Circular Foot |
| | × 1(6/o). | = Circular Mil |
| | × 645.163 | = Circular Millimeter |
| | × .2618 | = Foot Circumference |
| | × 3.1416 | = Inch Circumference |
| | × 5.06709 | = Square Centimeter |
| | × .00545415 | = Square Foot |
| | × .785398 | = Square Inch |
| | × 785398. | = Square Mil |
| | × 506.709 | = Square Millimeter |
| Circular Mil | × .5/o1 | = Circular Inch |
| | × .00064516 | = Circular Millimeter |
| | × Foot | = Mil-Foot |
| | × .5/o50671 | = Square Centimeter |
| | × .6/o7854 | = Square Inch |
| | × .7854 | = Square Mil |
| | × .00050671 | = Square Millimeter |
| | = Circle Diameter Squared in Mils | |
| Circular Millimeter | × 1550. | = Circular Mil |
| | × .007854 | = Square Centimeter |
| | × .7854 | = Square Millimeter |
| Cistern: Feet Diameter Squared | × .1865 | = Barrel (31.5)/Foot Deep |
| | × 5.875 | = Gallon US/Foot Deep |
| Clark Degree: Gallon British | × 1.0 | = Grain Calcium Carbonate |
| Gallon US | × .829 | = Grain Calcium Carbonate |
| Clay: Drained: | = 45. | = Degree Natural Slope |

| | | |
|---|---|---|
| Clay: Dry: Cubic Foot | × 85 to 90 | = Pound |
| Cubic Yard | × 3100. | = Pound |
| Soft: Square Foot | × .5 to 1. | = Ton (Supports) |
| Wet: | = 16. | = Degree Natural Slope |
| Wet: Cubic Foot | × 95 to 105 | = Pound |
| Cleveland Ohio Heating Load | = 6005. | = Degree-Day |
| Clothes Drier: | = 4500 to 9000 | = Watts Avg Use |
| Coal: Anthracite: Cubic Foot | × 50 to 58 | = Pound Range |
| Pound | × 9620 to 13081 | = Btu (Maximum 13955) |
| | × 23.783 | = Cuft Manufactured Gas |
| | × 11.621 | = Cuft Natural Gas |
| | × .2254 | = Cuft Water Evap. @ 212F |
| | × 10180180. | = Foot-Pound |
| | × 1.68661089 | = Gallon Water Evap. @ 212F |
| | × 5.1432 | = Horsepower-Hour |
| | × 138(5/o). | = Joule |
| | × 3.8333 | = Kilowatt-Hour |
| | × .9009 | = Pound Bituminous Coal |
| | × 2.09 | = Pound Dry Wood |
| | × .68468 | = Pound Fuel Oil |
| | × 13.486 | = Pound Water Evap. @ 212F |
| Ton Long | × 6.27 | = Barrel (42) Oil |
| | × 40. | = Cubic Feet |
| Ton Short | × 5.6 | = Barrel (42) Oil |
| Coal: Bituminous: Cubic Foot | × 42 to 57 | = Pound (Range) |
| Pound | × 11988 to 15045 | = Btu(Range) |
| | × 14520. | = Btu (Heat Value) |
| | × 26.4 | = Cuft Manufactured Gas |
| | × 12.9 | = Cuft Natural Gas |
| | × 113(5/o). | = Foot-Pound |
| | × 5.709 | = Horsepower-Hour |
| | × 15318000. | = Joule |
| | × 4.255 | = Kilowatt-Hour |
| | × 1.11 | = Pound Anthracite |
| | × 2.32 | = Pound Dry Wood |
| | × .76 | = Pound Fuel Oil |
| | × 14.97 | = Pound Water Evap. @ 212F |
| Ton Long | × 45. | = Cubic Feet |
| Coal: Burned: Pound | × .068 | = Pound Ashes |
| Ton Long | × 152. | = Pound Ashes |
| Ton Short | × 136. | = Pound Ashes |
| Fuel Value: Ton | × 4.125 | = Barrel (42) Crude Oil |
| | × 2. | = Cord (basswd-White Pine) |
| | × 1. | = Cord (Beech-Birch-Locust) |
| | × 2. | = Cord(Cedar-Poplar-Spruce) |
| | × 1. | = Cord(Cherry-Lglf Pine) |
| | × 2. | = Cord(Cyp-Catalpa-Redwd) |
| | × 1.5 | = Cord (Douglas Fir-Maple) |
| | × 1. | = Cord (Hick-Oak-Ash-Elm) |
| | × 1.5 | = Cord (Shtlf Pine-Red Gum) |
| | × 1.5 | = Cord (Sycamore-Hemlock) |
| | × 32000. | = Cuft (500 Btu) Manftd Gas |
| | × 22000. | = Cuft (800 Btu) Mixed Gas |
| | × 16000. | = Cuft (1000) Natural Gas |
| Pound | × 12000. | = Btu (Develops) Common |
| | × 1200. | = Btu (Effective) |
| Cobalt: (Co):#27:58.94AW: | | |
| Coffeemaker: | = Up to 1000 | = Watt Avg Use |
| Coffeespoonful | × 30. | = Minim (Drops) |
| Columbium: (Cb): #41:92.91 AW: | | |
| Common Logarithm | × 2.3025851 | = Naperian Log |
| Concrete: Chg-Mix-Carry-Spread: (Ft Carry | × .018) + 2.6 | = Man-Hour/cuyd |
| Cuyd × Port Rock × (Bbl Cement | × .1407) | = Cuyd Rock |
| Cuyd × Port Sand × (Bbl Cement | × .1407) | = Cuyd Sand |
| Finishing: Square Foot | × .2 | = Man-Hour (B-Hammer) |
| | × .2 | = Man-Hour (Crandalling) |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Concrete: Finishing: Square Foot | × .15 | = Man-Hour (Carborundum Rub) |
| | × .05 | = Man-Hour (Cement Wash) |
| | × .03 | = Man-Hour (Floors) |
| | × .17 | = Man-Hour (Picking) |
| Inch Thickness | × .00308 | = Cubic Yard/Square Foot |
| Inch Thickness | × .02772 | = Cubic Yard/Square Yard |
| Parts: Cement + Sand + Rock × .0909 | × Bbl Cement | = Cubic Yard Mix |
| Tensile Strenght | = 300. | = Pound/Square Inch |
| Topping (1"): Use 1 Part Portland Cement and 3 Part Sand. | | |
| Wet Mix: Cubic Foot | × 115 to 125 | = Pound |
| Cubic Yard | × 3105 to 3375 | = Pound |
| | × 1.386 to 1.51 | = Ton Long |
| | × 1.55 to 1.69 | = Ton Short |
| 1:2 :4 Inch Thickness | × .272 | = Cubic Yard Rock/Square |
| | × .136 | = Cubic Yard Sand/Square |
| | × 1.85 | = Sax Cement/Square |
| 1:2-1/2:5: Inch Thickness | × .282 | = Cubic Yard Rock/Square |
| | × .141 | = Cubic Yard Sand/Square |
| | × 1.54 | = Sax Cement/Square |
| (6 Gal/Sack = 2500 psi)(7-1/2 Gal/Sack = 1600 psi)(9 Gal/Sack = 1000 psi) | | |
| Cone: Base Area × Height | × .333 | = Volume |
| Diameter Squared × Height | × .261799 | = Volume |
| Radius Squared × Height | × 1.047197 | = Volume |
| Slant Height × Perimeter | × .5 | = Lateral Area |
| Slant Height × Base Diameter | × 1.5708 | = Lateral Area |
| Slant Height × Base Radius | × 3.1416 | = Lateral Area |
| Copper: (Cu)#29.68.57 AW: .10 Sp Ht: | | |
| 68F: Cubic Foot | × 555. | = Pound |
| Cubic Inch | × .319 | = Pound |
| Cubical Expansion | = 27. | = Parts/Million/°F |
| Linear Expansion | = 9.0 | = Parts/Million/°F |
| Linear Expansion: Inches | × 8.9 | = Micro-Inch/Degree F |
| Mil-Foot | × 10.4 | = Ohm Resistance |
| Specific Thermal Capacity | = 58.0 | = Watt-Second/Cuin/°C |
| Thermal Conductivity | = 9.0 | = Watt/°C/Inch |
| Cord (cd) | × 8. | = Cord-Feet |
| | × 128. | = Cubic Feet (Pile Volume) |
| | × 80. | = Cubic Feet (Wood Volume) |
| | × 3.624576 | = Cubic Meter |
| | = 4×4×8 | = Pile Size in Feet |
| Cord-Foot (cdft) | × .125 | = Cord |
| | × 16. | = Cubic Feet |
| | × .45306 | = Cubic Meter |
| | = 4×4×1 | = Pile Size in Feet |
| Corn: Shelled: Crib Volume in Cubic Feet | × .4 | = Bushel US Struck |
| Corrosion: Electrolytic: Carries Away 20 Pound Iron/Ampere/Year of Current Flow. | | |
| Corrugated Sheet: Depth×Thickness×Width | × 99900. | = Lb Breaking Wgt × Long(All Inch) |
| Coulomb (Q) | × .1 | = Abcoulomb |
| | × .00027777 | = Ampere-Hour |
| | × 1.0 | = Coulomb Absolute |
| | × 1.00016 | = Coulomb International |
| | × 1. | = Electric Quantity Unit |
| | × 62425(14/o). | = Electron/Second |
| | × .4/o10365 | = Faraday |
| | × Volt | = Joule |
| | × 1.0 | = Quantity Unit Practical |
| | × 2998(6/o). | = Statcoulomb |
| | × Volt | = Watt-Second |
| Coulomb Absolute | × 1.0 | = Coulomb |
| Coulomb International | × .999835 | = Coulomb |
| | × .999835 | = Coulomb Absolute |
| Coulomb/Second | × Ohm | = Volt |
| Coulomb/Square Centimeter | × .1 | = Abcoulomb/Sq Centimeter |
| | × 1. | = Charge/Unit Area |
| | × 6.452 | = Coulomb/Sq Inch |
| | × 10000. | = Coulomb/Sq Meter |

| | | |
|---|---|---|
| Coulomb/Square Centimeter | × 2998(6/o). | = Statcoulomb/Sq Centimeter |
| | × .01550 | = Abcoulomb/Sq Centimeter |
| | × .155 | = Coulomb/Sq Centimeter |
| | × 1550. | = Coulomb/Sq Meter |
| | × 4647(5/o). | = Statcoulomb/Sq Centimeter |
| Coulomb/Square Meter | × .4/o1 | = Abcoulomb/Square Centimeter |
| | × .3/o1 | = Coulomb/Square Centimeter |
| | × .3/o6452 | = Coulomb/Square Inch |
| | × 299800. | = Statcoulomb/Square Centimeter |
| Count: | × 840. | = Yard/Pound (Cotton) |
| Continental/1000 Meter Skein Spun Silk | × 1.0 | = Kilogram |
| English Dram/1000 Yard Skein Thrown Silk in Drams | | |
| International Metric Yarn | × 1.0 | = Meter/Gram |
| Legal Denier/450 Meter Skein Raw Silk | × 5.0 | = Centigram |
| Cube: Length of Side | × 1.7321 | = Diagonal |
| Side Squared | × 6. | = Total Surface Area |
| | × Side | = Volume |
| Cubic Centimeter (cc) | × .001 | = Cubic Decimeter |
| | × .4/o35314445 | = Cubic Foot |
| | × .06102338 | = Cubic Inch |
| | × 1000. | = Cubic Millimeter |
| | × .5/o130795 | = Cubic Yard |
| | × .28157 | = Dram Fluid |
| | × .000264173 | = Gallon Liquid US |
| | × .00023 | = Gallon Dry US |
| | × 15.43236 | = Grain |
| | × .999973 | = Gram Water 39.1F |
| | × .998844 | = Gram Water 62F |
| | × .000999973 | = Liter |
| | × .999973 | = Milliliter |
| | × .033814 | = Ounce Fluid US |
| | × .0018162 | = Pint Dry US |
| | × .0021134 | = Pint Liquid US |
| | × .00091 | = Quart Dry US |
| | × .00106 | = Quart Liquid US |
| Cubic Centimeter/Gram-Mole | × 1.0 | = Molecular Volume Unit |
| Cubic Decimeter (cudm) | × .02838 | = Bushel US Struck |
| | × 1000. | = Cubic Centimeter |
| | × 61.0234 | = Cubic Inch |
| | × .0353144 | = Cubic Foot |
| | × .001308 | = Cubic Yard |
| | × .22702 | = Gallon Dry US |
| | × .26417 | = Gallon Liquid US |
| | × .999973 | = Liter |
| | × .90808 | = Quart Dry US |
| | × 1.05668 | = Quart Liquid US |
| Cubic Foot (cuft) | × .4/o229568 | = Acre-Foot |
| | × .23748 | = Barrel (31.5) |
| | × .1781 | = Barrel (42) |
| | × .803564 | = Bushel US Struck |
| | × 28317.016 | = Cubic Centimeter |
| | × 28.317016 | = Cubic Decimeter |
| | × 1728. | = Cubic Inch |
| | × .02832 | = Cubic Meter |
| | × .037037 | = Cubic Yard |
| | × 2200. | = Cylindrical Inch |
| | × 6.428594 | = Gallon Dry US |
| | × 6.232082 | = Gallon Liquid British 39.1F |
| | × 7.480519 | = Gallon Liquid US 39.1F |
| | × 239.37662 | = Gill |
| | × 28.317016 | = Liter |
| | × Density | = Mass |
| | × 957.5 | = Ounce Fluid US Apoth. |
| | × 3.21426 | = Peck |
| | × 51.42809 | = Pint Dry US |
| | × 59.84416 | = Pint Liquid US |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Cubic Foot (cuft) | × Pound/Cuft | = Pound-Mass |
| | × 25.71405 | = Quart Dry US |
| | × 29.92208 | = Quart Liquid US |
| | × 1. | = Sack Cement (Common) |
| | × .00238095 | = Ton Shipping British |
| | × .025 | = Ton Shipping US |
| Cubic Foot/Day | × .000694459 | = Cubic Feet/Minute |
| Cubic Foot/Hour | × .01666 | = Cubic Feet/Minute |
| | × .000277 | = Cubic Feet/Second |
| | × 7.48 | = Gallon Liquid US/Hour |
| | × .1247 | = Gallon Liquid US/Minute |
| | × .002078 | = Gallon Liquid US/Second |
| Cubic Foot Million | × 22.95 | = Acre-Feet |
| Million/Day | × 11.5741 | = Cubic Feet/Second |
| Cubic Foot/Minute (cfm) | × 10.686 | = Barrel (42)/Hour |
| | × .1781 | = Barrel (42)/Minute |
| | × 471.950 | = Cubic Centimeter/Second |
| | × 1440. | = Cubic Feet/Day |
| | × 60. | = Cubic Feet/Hour |
| | × .0166 | = Cubic Feet/Second |
| | × 28.800 | = Cubic Inch/Second |
| | × .02832 | = Cubic Meter/Minute |
| | × 10771.2 | = Gallon Liquid US/Day |
| | × 448.83 | = Gallon Liquid US/Hour |
| | × 7.480519 | = Gallon Liquid US/Minute |
| | × .1247 | = Gallon Liquid US/Second |
| | × .4719 | = Liter/Second |
| | × 3741.3 | = Pound Water 62F/Hour |
| | × 62.425 | = Pound Water 39.1F/Minute |
| | × 62.355 | = Pound Water 62F/Minute |
| Cubic Foot/Second (cfs) | × 15387.43 | = Barrel (42)/Day |
| | × 86400. | = Cubic Feet/Day |
| | × 60. | = Cubic Feet/Minute |
| | × 646316.8416 | = Gallon Liquid US/Day |
| | × 26929.86 | = Gallon Liquid US/Hour |
| | × 448.831 | = Gallon Liquid US/Minute |
| | × .646316 | = Million Gallon US/Day |
| | × 224460. | = Pound Water 62F/Hour |
| | × 3741.3 | = Pound Water 62F/Minute |
| Cubic Inch (cuin) | × .0004650 | = Bushel US Std Struck |
| | × 16.387162 | = Cubic Centimeter |
| | × .16387162 | = Cubic Decimeter |
| | × .000578704 | = Cubic Foot |
| | × .4/o214334 | = Cubic Yard |
| | × .003720 | = Gallon Dry US |
| | × .003607 | = Gallon Liquid British |
| | × .004329 | = Gallon Liquid US |
| | × .01638673 | = Liter |
| | × .55411 | = Ounce Fluid US Apoth |
| | × .0346320 | = Pint Liquid US |
| | × .01488 | = Quart Dry US |
| | × .017316 | = Quart Liquid US |
| Cubic Meter (cum) | × 6.2897 | = Barrel (42) |
| | × .2759 | = Cord |
| | × 1(6/o). | = Cubic Centimeter |
| | × 1000. | = Cubic Decimeter |
| | × 35.314445 | = Cubic Feet |
| | × 61023.36 | = Cubic Inch |
| | × 1.307954 | = Cubic Yard |
| | × 227.02 | = Gallon Dry US |
| | × 220. | = Gallon Liquid British |
| | × 264.17 | = Gallon Liquid US |
| | × 10. | = Hectoliter |
| | × 1. | = Kiloliter |
| | × 1000. | = Liter |
| | × 908.08 | = Quart Dry US |

| | | |
|---|---|---|
| Cubic Meter (cum) | × 1056.7 | = Quart Liquid US |
| | × 1. | = Stere |
| Cubic Meter/Minute | × .5886 | = Second-Foot |
| Cubic Millimeter | × .01693 | = Minim |
| Cubic Yard (cuyd) | × .00062 | = Acre-Foot |
| | × 4.8089 | = Barrel (42) |
| | × 21.6962 | = Bushel US Struck |
| | × 764559.4 | = Cubic Centimeter |
| | × 764.559 | = Cubic Decimeter |
| | × 46656. | = Cubic Inch |
| | × 27. | = Cubic Feet |
| | × .76455 | = Cubic Meter |
| | × 173.570 | = Gallon Dry US |
| | × 202.19735 | = Gallon Liquid US |
| | × 764.56 | = Liter |
| | × 25853. | = Ounce Fluid US Apoth. |
| | × 694.279 | = Quart Dry US |
| | × 807.896 | = Quart Liquid US |
| Cubit: | × 45.72 | = Centimeter |
| | × 18.0 | = Inch |
| Bible | × 21.8 | = Inch |
| Cubitus (Ancient Roman | × 17.4 | = Inch |
| | × 1.5 | = Roman Feet |
| Greek Olympic | × 24. | = Digit or Finger-Breadth |
| | × 18.24 | = Inch |
| | × 6. | = Palm |
| | × 2. | = Span |
| Hebrew | × 19 to 26 | = Inch |
| Royal Egyptian | × 20.62 | = Inch |
| Cup | × .5 | = Pint |
| | × 16. | = Tablespoon |
| Cupric: Cu: | = +2 | = Valence |
| Cuprous: Cu: | = +1 | = Valence |
| Curie | × 37(9/o). | = Disintegrations/Second |
| Cut: (Glass) | × 100. | = Yard/Pound Avoir |
| (Woolen:Silk Noil) | × 300. | = Yard/Pound Avoir |
| CWT | × 1. | = Hundredweight |
| | × 100. | = Pound |
| Cyanide: CN: | = −1 | = Valence |
| Cylinder: Base Area | × Height | = Volume |
| Base Perimeter | × Height | = Lateral Area |
| Circumference Squared × Height | × .07957747 | = Volume |
| Cylinder: Diameter Foot × Foot High | × 3.1416 | = Sqft Lateral Area |
| | × 452.389248 | = Sqin Lateral Area |
| × Inch High | × .2617989 | = Sqin Lateral Area |
| | × 37.69908 | = Sqft Lateral Area |
| Diameter × Height | × 3.1416 | = Lateral Area |
| Diameter Inch × Foot High | × .2617989 | = Sqft Lateral Area |
| | × 37.69908 | = Sqin Lateral Area |
| × Inch High | × .021816 | = Sqft Lateral Area |
| | × 3.1416 | = Sqin Lateral Area |
| Diameter Squared Foot × Foot High | × .139885 | = Barrel (42) |
| | × .785398 | = Cubic Foot |
| | × 1357.17 | = Cubic Inch |
| | × 5.8752 | = Gallon US |
| Diameter Squared Foot × Inch High | × .01165 | = Barrel (42) |
| | × .0654 | = Cubic Foot |
| | × 113.097 | = Cubic Inch |
| | × .489597 | = Gallon US |
| Diameter Squared × Height | × .7854 | = Volume |
| Diameter Squared Inch × Foot High | × .0009714234 | = Barrel (42) |
| | × .00545 | = Cubic Foot |
| | × 9.4247784 | = Cubic Inch |
| | × .0408 | = Gallon US |
| Diameter Squared Inch × Inch High | × .4/o8095195 | = Barrel (42) |
| | × .000454 | = Cubic Foot |

| | | |
|---|---|---|
| Cylinder: Diameter Squared Inch × Inch High | × .785398 | = Cubic Inch |
| | × .0034 | = Gallon US |
| Inside Radius × Height | × 6.28318 | = Area Internal |
| Outside Radius × Height | × 6.28318 | = Area External |
| Radius × Height | × 6.28318 | = Lateral Area |
| Radius Squared × Height | × 3.1416 | = Volume |
| Cylindrical Foot | × .02909 | = Cubic Yard |
| | × 4.895 | = Gallon Liquid British |
| | × 5.874 | = Gallon Liquid US |
| Cylindrical Inch | × .0004546 | = Cubic Foot |
| | × .002832 | = Gallon Liquid British |
| | × .0034 | = Gallon Liquid US |

## D

| | | |
|---|---|---|
| Dallas Heating Load | = 2455. | = Degree-Day |
| Darcy | × 1. | = Permeability Unit |
| Darcy = Cuft/Day/Sqft Sand/psf Pressure Differential/Foot Sand Thickness. | | |
| Day | × 24. | = Hour |
| | × .0329 | = Month (1/12 year) |
| | × 1440. | = Minute |
| | × 86400. | = Second |
| | × .00274 | = Year |
| Day/Kilogram | × .45359 | = Day/Pound Avoir |
| | × .031104 | = Day/Ounce Troy |
| | × .024 | = Hour/Gram |
| | × .74649 | = Hour/Ounce Troy |
| | × .68039 | = Hour/Ounce Avoir |
| | × 10.88622 | = Hour/Pound Avoir |
| | × .0864 | = Second/Milligram |
| | × .085157 | = Year/Kilo-Ounce Troy |
| | × 2.73791 | = Year/Ton Metric |
| | × 2.48379 | = Year/Ton Short Avoir |
| Day/Ounce Troy | × 32.15072 | = Day/Kilogram |
| | × .77162 | = Hour/Gram |
| | × 24. | = Hour/Ounce Troy |
| | × 2.77778 | = Second/Milligram |
| | × 2.73791 | = Year/Kilo-Ounce Troy |
| | × 88.02578 | = Year/Ton Metric |
| Day/Pound Avoir | × 2.20462 | = Day/Kilogram |
| | × .052911 | = Hour/Gram |
| | × 1.5 | = Hour/Ounce Avoir |
| | × 24. | = Hour/Pound Avoir |
| | × .19048 | = Second/Milligram |
| | × 6.03606 | = Year/Ton Metric |
| | × 5.47582 | = Year/Ton Short Avoir |
| Deca | × 1.0 | = Deka |
| | = 10. | = Ten |
| Decagon: Short Radius Squared | × 3.24920 | = Area |
| Width of Side Squared | × 7.694209 | = Area |
| Decagram (dkg) | × 1.0 | = Dekagram |
| | × 5.64383 | = Dram |
| | × 154.32349 | = Grain |
| | × 10. | = Gram |
| | × .35273957 | = Ounce Avoirdupois |
| | × .321 | = Ounce Troy |
| | × .022056 | = Pound Avoirdupois |
| | × .02679 | = Pound Troy |
| Decaliter (dkl) | × .28378 | = Bushel US Struck |
| | × 1.0 | = Dekaliter |
| | × 610.270515 | = Cubic Inch |
| | × 2.6417 | = Gallon Liquid US |
| | × 10. | = Liter |
| | × 1.13513 | = Peck |
| | × 18.1620 | = Pint Dry |
| | × 9.08102 | = Quart Dry |
| Decameter (dkm) | × 1.0 | = Dekameter |
| | × 32.808 | = Feet |

| | | |
|---|---|---|
| Decameter (dkm) | × 393.70113 | = Inch |
| | × 10. | = Meter |
| | × .006 | = Mile |
| | × 1.9884 | = Rod |
| | × 10.9361114 | = Yard |
| Decastere | × 10. | = Cubic Meter |
| | × 1.0 | = Dekastere |
| Deci | = .1 = $10^{-1}$ | = One-Tenth |
| Decibel (db) | = .1 | = Bel (See Noise) |
| Decigram (dg) | × 10. | = Centigram |
| | × 1.54324 | = Grain |
| | × .1 | = Gram |
| | × .0031104 | = Ounce Troy |
| Deciliter (dl) | × 10. | = Centiliter |
| | × .1000027 | = Cubic Decimeter |
| | × 6.1025 | = Cubic Inch |
| | × .845 | = Gill Liquid |
| | × .1 | = Liter |
| | × 3.38147 | = Ounce Fluid US |
| | × .176 | = Pint |
| Decimeter (dm) | × .3280833 | = Feet |
| | × 3.9370113 | = Inch |
| | × .1 | = Meter |
| | × .109361114 | = Yard |
| Decistere | × .1 | = Cubic Meter |
| | × .1 | = Stere |
| Degree | × .00278 | = Circle |
| | × .002778 | = Circumference |
| | × 1.11111 | = Grade |
| | × 60. | = Minute |
| | × .01111 | = Quadrant |
| | × .017453292 | = Radian |
| | × .002778 | = Revolution |
| | × 3600. | = Second |
| Degree-Day: (T = Mean Temperature for the Day) | = 65 - T | = Degree-Day |
| | × .096 | = Cuft Gas/Sqft Boiler |
| | × .0007 | = Gal Fuel Oil/Sqft Boiler |
| | × .008 | = Lb Coal/Sqft Boiler |
| Degree in Arc × Radius | × .017453292 | = Length of Arc |
| Degree Longitude | × 4.0 | = Minute of Time |
| Degree/Second | × .01745 | = Radian/Second |
| | × .1667 | = Revolution/Minute |
| | × .002778 | = Revolution/Second |
| Denier | × 5.0 | = Centigram |
| | × .028 | = Dram Avoir |
| (Nylon: Rayon: Silk: Vinyon) | × 9000. | = Meter/Gram |
| | = .05 gm | = 450 Meter |
| Denier/450 Meter | × .0573 | = Dram/Kilo-Yard |
| Density: | × Centistoke | = Centipoise |
| | × Sp Volume | = 1.0 |
| | × Unit Volume | = Mass or Weight |
| | × 62.4 | = Pound/Cubic Foot |
| | × 1.0 | = Specific Weight |
| | × 1.0 | = Spg (In Metric System) |
| Gas: Gram Wgt/Liter | × 22.4 | = Gram-Molecular Weight |
| Pound Wgt/Cuft | × 22.4 | = Pound-Molecular Weight |
| Lb Mass/Cuft×Specific Volume (Cuft/lb Mass) | | = 1.0 |
| Of a Body in Gram/Milliliter = Specific Gravity of Body (Unity = Water @ 4C) | | |
| Pound/Cubic Foot | × Cubic Foot | = Pound-Mass |
| Pound-Force | × 32.174 | = Pound/Cuft Density |
| × Foot Fourth Power | = Pound-Force | × Second Squared |
| × Kinematic Viscosity Sqft/Sec = Abs Viscosity Lb-Force-Sec/Sqft | | |
| Pound-Mass × Kinematic Viscosity Sqft/Sec = Abs Viscosity Lb-Force-Sec/Sqft | | |
| Denver Heating Load | = 5880. | = Degree-Day |
| Dessatine | × 10.925 | = Square Meter |
| | × 2400. | = Square Sashen |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Diesel Fuel: Pound | × 19500. | = Btu (Common) |
| Digging: Hand: Ditch: Cubic Yard | × 3.2 | = Man-Hr(Average Soil) |
| | × 5.0 | = Man-Hr(Hard Pan) |
| | × 4.2 | = Man-Hr (Hvy Soil or Clay) |
| | × 1.8 | = Man-Hr (Loam or Sand) |
| General Work: Cubic Yard | × 1.2 | = Man-Hr (Dry Average Soil) |
| | × 2.2 | = Man-Hr (Dry Clay) |
| | × 2.5 | = Man-Hr (Dry Hard Pan) |
| | × .9 | = Man-Hr (Dry Loam or Sand) |
| | × 2.5 | = Man-Hr (Wet Average Soil) |
| | × 3.3 | = Man-Hr (Wet Clay) |
| | × 4.0 | = Man-Hr (Wet Hard Pan) |
| | × 1.2 | = Man-Hr (Wet Loam or Sand) |
| Pits: Cubic Yard | × 3.4 | = Man-Hr (Average Soil) |
| | × 5.3 | = Man-Hr (Hard Pan) |
| | × 4.4 | = Man-Hr (Hvy Soil or Clay) |
| | × 2.0 | = Man-Hr (Loam or Sand) |
| Dilution of Solution: Vol Solute × % Solute = (Water to Add + Vol Solute) × % Final Solution | | |
| cc Solute × % Solute = cc Solvent × % Final Solution | | |
| Dime (10 Cent Piece) | = 2.5 | = Gram |
| Dishwasher (Home): | = 600. | = Watt Avg Use |
| Disintegration/Second | × .10/o27216 | = Curie |
| Displacement | × Time | = Velocity |
| In Feet | × Second | = Feet/Second |
| Dodecagon: Short Radius Squared | × 3.21539 | = Area |
| Width of Side Squared | × 11.196152 | = Area |
| Dodecahedron: Side Squared | × 20.6457 | = Total Area |
| Side Cubed | × 7.6631 | = Volume |
| Dome: Hemispherical: Diameter Squared | × 1.5708 | = Area |
| Dozen | = .08333 | = Reciprocal |
| | × 12. | = Units |
| Dram Apothecaries | × 1. | = Drachm Liquid |
| | × 1. | = Drachma Liquid |
| | × 2.19429 | = Dram Avoir |
| | × 60. | = Grain |
| | × 3.8879351 | = Gram |
| | × 3.697 | = Milliliter |
| | × 60. | = Minim |
| | × .125 | = Ounce Apoth-Troy |
| | × .0078125 | = Pint Liquid US |
| | × .0104167 | = Pound Apoth-Troy |
| | × 3. | = Scruple Apoth |
| Dram Avoirdupois | × .455729 | = Dram Apoth |
| | × 27.34375 | = Grain |
| | × 1.771845 | = Gram |
| | × .0625 | = Ounce Avoir |
| | × .003906 | = Pound Avoir |
| Dram Fluid | × 1.0 | = Dram Apothecaries |
| Dram/Kilo-Yard | × 17.44 | = Denier/450 Meter |
| Drill Mud: Lb/cuft × Pipe Wgt Lb/Ft | × .002 | = Bouyancy Factor |
| Drill Pipe: Pound/Foot | × .06 to .13 | = Pound/Foot (In Fluid) |
| Duct: Convey Air: Speed to Move | = 4000. | = fpm Fine Coal-Brass Turnings |
| | = 2000. | = fpm Grain Dust-Saw Dust |
| | = 2000. | = fpm Jute Dust-Rubber Dust |
| | = 5000. | = fpm Lead Dust |
| | = 1500. | = fpm Lint |
| | = 2200. | = fpm Metal Dust-Grindings |
| | = 3000. | = fpm Wood Chip-Shavings |
| Duct: Round: Air: $(°K \times .00366)^{1.75}$ | × 277/d" | = fpm Critical Velocity |
| Dyne | × 1. | = Force Unit |
| | × .001019716 | = Gram-Force |
| | × .6/o1 | = Joule/Centimeter |
| | × .4/o1 | = Joule/Meter |
| | × .5/o1019716 | = Kilogram-Force |
| | × .4/o1 | = Newton |
| | × .4/o7233 | = Poundal |

| | | |
|---|---|---|
| Dyne | × .5/o2248089 | = Pound-Force |
| | × .7/o1 | = Sthene |
| | × Second Squared | = Gram-Mass-Centimeter |
| Dyne-Centimeter | × 1. | = Erg |
| | × .00109716 | = Gram-Centimeter |
| | × .6/o885073 | = Inch-Pound |
| | × .7/o1019716 | = Kilogram-Meter |
| | × .6/o1 | = Newton-Meter |
| | × .7/o737557 | = Pound-Foot |
| | × 1. | = Erg/Square Centimeter |
| | × .001019716 | = Gram/Centimeter |
| | × .0001837186 | = Poundal/Inch |
| Dyne-Centimeter/Second | × .6/o1 | = Joule/Second |
| | × .6/o1 | = Watt |
| Dyne/Cubic Centimeter | × .001019716 | = Gram/Cubic Centimeter |
| | × .00118528 | = Poundal/Cubic Inch |
| Dyne-Second/Square Centimeter | × 100. | = Centipoise |
| | × 10000. | = Dyne-Second/Sq Meter |
| | × 6.45 | = Dyne-Second/Sq Inch |
| | × 929.03 | = Dyne-Second/Sq Foot |
| | × 1. | = Gram-Mass/Centimeter-Second |
| | × 60. | = Gram-Mass/Centimeter-Minute |
| | × 3600. | = Gram-Mass/Centimeter-Hour |
| | × .010194 | = Kilogram-Force-Second/Sq Meter |
| | × .001 | = Kilogram-Mass/Centimeter-Second |
| | × .1 | = Kilogram-Mass/Meter-Second |
| | × 6. | = Kilogram-Mass/Meter-Minute |
| | × 360. | = Kilogram-Mass/Meter-Hour |
| | × 1. | = Poise |
| | × .002247 | = Pound-Force-Second/Sq Meter |
| | × .4/o145 | = Pound-Force-Second/Sq Inch |
| | × .00209 | = Pound-Force-Second/Sq Foot |
| | × .6/o242 | = Pound-Force-Minute/Sq Inch |
| | × .4/o348 | = Pound-Force-Minute/Sq Foot |
| | × .4/o2204 | = Pound-Mass/Centimeter-Second |
| | × .0056 | = Pound-Mass/Inch-Second |
| | × .0672043 | = Pound-Mass/Foot-Second |
| | × .001322 | = Pound-Mass/Centimeter-Minute |
| | × .336 | = Pound-Mass/Inch-Minute |
| | × 4.032 | = Pound-Mass/Feet-Minute |
| | × .007837 | = Pound-Mass/Centimeter-Hour |
| | × 20.16 | = Pound-Mass/Inch-Hour |
| | × 241.93548 | = Pound-Mass/Foot-Hour |
| | × .4/o2204 | = Poundal-Second/Sq Centimeter |
| | × .0056 | = Poundal-Second/Sq Inch |
| | × .0672043 | = Poundal-Second/Sq Foot |
| | × .001322 | = Poundal-Minute/Sq Centimeter |
| | × .336 | = Poundal-Minute/Sq Inch |
| | × 4.032 | = Poundal-Minute/Sq Foot |
| | × .007837 | = Poundal-Hour/Sq Centimeter |
| | × 20.16 | = Poundal-Hour/Sq Inch |
| | × 241.93548 | = Poundal-Hour/Sq Foot |
| | × Rhe | = 1.0 |
| Dyne-Second/Square Foot | × .107 | = Centipoise |
| | × .00107 | = Dyne-Second/Sq Centimeter |
| | × 10.7 | = Dyne-Second/Sq Meter |
| | × .00695 | = Dyne-Second/Sq Inch |
| | × .00107 | = Gram-Mass/Centimeter-Second |
| | × .0646 | = Gram-Mass/Centimeter-Minute |
| | × 3.87 | = Gram-Mass/Centimeter-Hour |
| | × .5/o107 | = Kilogram-Mass/Centimeter-Second |
| | × .000107 | = Kilogram-Mass/Meter-Second |
| | × .00646 | = Kilogram-Mass/Meter-Minute |
| | × .387 | = Kilogram-Mass/Meter-Hour |
| | × .4/o109 | = Kilogram-Force-Second/Sq Meter |
| | × .00107 | = Poise |

| | | |
|---|---|---|
| Dyne-Second/Square Foot | × .4/o242 | = Pound-Force-Second/Sq Meter |
| | × .7/o156 | = Pound-Force-Second/Sq Inch |
| | × .5/o225 | = Pound-Force-Second/Sq Foot |
| | × .9/o26 | = Pound-Force-Minute/Sq Inch |
| | × .7/o374 | = Pound-Force-Minute/Sq Foot |
| | × .7/o238 | = Pound-Mass/Centimeter-Second |
| | × .5/o603 | = Pound-Mass/Inch-Second |
| | × .4/o724 | = Pound-Mass/Foot-Second |
| | × .5/o142 | = Pound-Mass/Centimeter-Minute |
| | × .000362 | = Pound-Mass/Inch-Minute |
| | × .00434 | = Pound-Mass/Foot-Minute |
| | × .5/o843 | = Pound-Mass/Centimeter-Hour |
| | × .0217 | = Pound-Mass/Inch-Hour |
| | × .26 | = Pound-Mass/Foot-Hour |
| | × .7/o238 | = Poundal-Second/Sq Centimeter |
| | × .5/o603 | = Poundal-Second/Sq Inch |
| | × .4/o724 | = Poundal-Second/Sq Foot |
| | × .5/o142 | = Poundal-Minute/Sq Centimeter |
| | × .000362 | .= Poundal-Minute/Sq Inch |
| | × .00434 | = Poundal-Minute/Sq Foot |
| | × .5/o843 | = Poundal-Hour/Sq Centimeter |
| | × .0217 | = Poundal-Hour/Sq Inch |
| | × .26 | = Poundal-Hour/Sq Foot |
| Dyne-Second/Square Inch | × 15.5 | = Centipoise |
| | × .155 | = Dyne-Second/Sq Centimeter |
| | × 1550. | = Dyne-Second/Sq Meter |
| | × 142.5 | = Dyne-Second/Sq Foot |
| | × .155 | = Gram-Mass/Centimeter-Second |
| | × 9.3 | = Gram-Mass/Centimeter-Minute |
| | × 559. | = Gram-Mass/Centimeter-Hour |
| | × .3/o155 | = Kilogram-Mass/Centimeter-Second |
| | × .0155 | = Kilogram-Mass/Meter-Second |
| | × .93 | = Kilogram-Mass/Meter-Minute |
| | × 55.9 | = Kilogram-Mass/Meter-Hour |
| | × .00158 | = Kilogram-Force-Second/Sq Meter |
| | × .155 | = Poise |
| | × .00349 | = Pound-Force-Second/Sq Meter |
| | × .5/o225 | = Pound-Force-Second/Sq Inch |
| | × .000324 | = Pound-Force-Second/Sq Foot |
| | × .7/o375 | = Pound-Force-Second/Sq Inch |
| | × .5/o54 | = Pound-Force-Minute/Sq Foot |
| | × .5/o342 | = Pound-Mass/Centimeter-Second |
| | × .3/o869 | = Pound-Mass/Inch-Second |
| | × .0104 | = Pound-Mass/Foot-Second |
| | × .000205 | = Pound-Mass/Centimeter-Minute |
| | × .052 | = Pound-Mass/Inch-Minute |
| | × .625 | = Pound-Mass/Foot-Minute |
| | × .00121 | = Pound-Mass/Centimeter-Hour |
| | × 3.12 | = Pound-Mass/Inch-Hour |
| | × 37.5 | = Pound-Mass/Foot-Hour |
| | × .5/o342 | = Poundal-Second/Sq Centimeter |
| | × .3/o869 | = Poundal-Second/Sq Inch |
| | × .0104 | = Poundal-Second/Sq Foot |
| | × .000205 | = Poundal-Minute/Sq Centimeter |
| | × .052 | = Poundal-Minute/Sq Inch |
| | × .625 | = Poundal-Minute/Sq Foot |
| | × .00121 | = Poundal-Hour/Sq Centimeter |
| | × 3.12 | = Poundal-Hour/Sq Inch |
| | × 37.5 | = Poundal-Hour/Sq Foot |
| Dyne-Second/Square Meter | × .01 | = Centipoise |
| | × .0001 | = Dyne-Second/Sq Centimeter |
| | × .3/o645 | = Dyne-Second/Sq Inch |
| | × .0929 | = Dyne-Second/Sq Foot |
| | × .0001 | = Gram-Mass/Centimeter-Second |
| | × .006 | = Gram-Mass/Centimeter-Minute |
| | × .36 | = Gram-Mass/Centimeter-Hour |

| | | |
|---|---|---|
| Dyne-Second/Square Meter | × .6/o1 | =Kilogram-Mass/Centimeter-Second |
| | × .4/o1 | = Kilogram-Mass/Meter-Second |
| | × .0006 | = Kilogram-Mass/Meter-Minute |
| | × .036 | = Kilogram-Mass/Meter-Hour |
| | × .5/o1019 | = Kilogram-Force-Second/Sq Meter |
| | × .0001 | = Poise |
| | × .5/o2247 | = Pound-Force-Second/Sq Meter |
| | × .8/o145 | = Pound-Force-Second/Sq Inch |
| | × .6/o209 | = Pound-Force-Second/Sq Foot |
| | × .10/o242 | = Pound-Force-Minute/Sq Inch |
| | × .8/o348 | = Pound-Force-Minute/Sq Foot |
| | × .8/o2204 | = Pound-Mass/Centimeter-Second |
| | × .6/o56 | = Pound-Mass/Inch-Second |
| | × .5/o672 | = Pound-Mass/Foot-Second |
| | × .6/o1322 | = Pound-Mass/Centimeter-Minute |
| | × .4/o336 | = Pound-Mass/Inch-Minute |
| | × .3/o4032 | = Pound-Mass/Foot-Minute |
| | × .6/o7837 | = Pound-Mass/Centimeter-Hour |
| | × .002016 | = Pound-Mass/Inch-Hour |
| | × .02419 | = Pound-Mass/Foot-Hour |
| | × .8/o2204 | = Poundal-Second/Sq Centimeter |
| | × .6/o56 | = Poundal-Second/Sq Inch |
| | × .5/o672 | = Poundal-Second/Sq Foot |
| | × .6/o132 | = Poundal-Minute/Sq Centimeter |
| | × .5/o336 | = Poundal-Minute/Sq Inch |
| | × .3/o403 | = Poundal-Minute/Sq Foot |
| | × .6/o78 | = Poundal-Hour/Sq Centimeter |
| | × .002016 | = Poundal-Hour/Sq Inch |
| | × .02419 | = Poundal-Hour/Sq Foot |
| Dyne/Square Centimeter | × .6/o986923 | = Atmosphere 76cm 32F |
| | × .5/o1 | = Bar |
| | × 1.0 | = Barye |
| | × .4/o7500615 | = Centimeter Mercury 32F |
| | × .001019716 | = Gram/Square Centimeter |
| | × .4/o2953 | = Inch Mercury 32F |
| | × .0004015 | = Inch Water 4C |
| | × .01019716 | = Kilogram/Square Meter |
| | × .0001 | = Kilopascal |
| | × .1 | = Newton |
| | × .000232061 | = Ounce Avoir/Square Inch |
| | × .002089 | = Pound/Square Foot |
| | × .4/o145038 | = Pound/Square Inch |
| | × .000466642 | = Poundal/Square Inch |
| | × .5/o1044 | = Ton Short/Square Foot |

Dysprosium: (Dy):#66:162.46: AW: _____

E

| | | |
|---|---|---|
| Eagle | × 10. | = Dollar US |
| Earth: Average Natural Slope | = 28. | = Degree |
| Common Dry: Cubic Foot | × 72 to 80 | = Pound |
| Square Foot | × 1. to 1.5 | = Ton (Support) |
| Common Wet: Cubic Foot | × 104 to 112 | = Pound |
| Square Foot | × .25 to 1. | = Ton (Support) |
| Compact Natural Slope | = 50. | = Degree |
| EDR | × 1.0 | = Equiv Direct Radiation |
| EDR Square Foot (Heating Surface) | × 240. | = Btu/Hr |
| Eight-Gram | = 1(8/o). | = Gram |
| Electric Circuit: Length in Feet | = .001 | = Kilofeet |
| Electric Heating Apparatus | = 80% | = Efficiency |
| Electric Range: Home: | = 8. to 16000 | = Watt Avg Use |
| Electromagnetism | = 4. | = Dimension Systems |

Electromagnetism = 3 Fundamental Mechanics Dimensions + Electromagnetic

| | | |
|---|---|---|
| Electronic Charge | = .19/o16019 | = Abcoulomb |
| | × .18/o16019 | = Coulomb Absolute |
| | × .19/o160199 | = EMU Absolute |
| | × .9/o480239 | = ESU Absolute |
| | × .9/o480217 | = Statcoulomb |

| | | |
|---|---|---|
| Electroplating: Aluminum: Amp × Second | × .4/o939 | = Gram Deposited at Cathode |
| Chromium: Amp × Second | × .0001796 | = Gram Deposited at Cathode |
| Copper: Amp × Second | × .0003294 | = Gram Deposited at Cathode |
| Gold: Amp × Second | × .0006812 | = Gram Deposited at Cathode |
| Hydrogen: Amp × Second | × .4/o1045 | = Gram Deposited at Cathode |
| Nickel: Amp × Second | × .000304 | = Gram Deposited at Cathode |
| Oxygen: Amp × Second | × .4/o8291 | = Gram Deposited at Cathode |
| Silver: Amp × Second | × .00118 | = Gram Deposited at Cathode |
| Oz/Sqft/Mil Thickness | × 12. | = Spg of Metal |
| Electrostatic Unit | × .9/o333585 | = Coulomb |
| | × 3(10/o). | = Electromagnetic Unit |
| Electron-Volt | = .11/o1602 | = Erg |
| Electron-Volt Absolute | × .5/o160199 | = Erg |
| Absolute/Molecule | × 23060.5 | = Cal Thermo/Mole |
| | × 96485.3 | = Joule Abs/Mole |
| Electron-Volt International | × .5/o160252 | = Erg |
| International/Molecule | × 96501.2 | = Joule Int/Mole |
| | × 23068.1 | = Calorie Thermo/Mole |
| Elevator: Lbs Unbalanced Load × fpm | × .4/o6 | = HP @ 50% Efficiency |
| Ell | × 114.30 | = Centimeter |
| | × 45. | = Inch British |
| Ellipse: Long × Short Diameter | × .7854 | = Area |
| Long × Short Radius | × 3.1416 | = Area |
| Ellipsoid: Semiaxes A × B × C | × 4.18879 | = Volume |
| Small Diam Squared × Large Diam | × .5231 | = Volume |
| Small Rad Squared × Large Radius | × 4.18879 | = Volume |
| Ells: Air Flow Resistance: 1-4" | = 3.7d"-1.7 | = Equiv Feet Straight Pipe |
| 5-8" | = 4d" | = Equiv Feet Straight Pipe |
| Water Flow Resistance: 1-2" | = d" +6. | = Equiv Feet Straight Pipe |
| 3-6" | = d" +12. | = Equiv Feet Straight Pipe |
| Emissivity (Radiation Factor 0-200C) | × .90 | = Asbestos Paper |
| | = .55 | = Aluminum Paint |
| | = .90 | = Black Gloss Paint |
| | = .80 | = Bronze Paint |
| | = .95 | = Green or Gray Paint |
| | = .95 | = Lampblack |
| | = .25 | = Machined Cast Iron |
| | = .43 | = Oxidized Monel |
| | = .70 | = Oxidized Steel or Cu |
| | = .60 | = Polished Brass |
| | = .025 | = Polished Mirror Surface |
| Em Pica | × .42333 | = Centimeter |
| | × .1666 | = Inch |
| EMU | × 299774(5/o). | = ESU |
| | × 1.0 | = Electramagnetic Unit |
| Equivalent Direct Radiation | = 1.0 | = EDR |
| Erbium: (Er)#68:167.2 AW: | | |
| Erg | × .10/o947988 | = Btu |
| | × 1. | = Dyne-Centimeter |
| | × 1.0 | = Energy Unit cgs |
| | × .3/o51632 | = Foot-Grain |
| | × .7/o737557 | = Foot-Pound |
| | × .5/o237303 | = Foot-Poundal |
| | × .7/o23888 | = Gram-Calorie |
| | × .001019716 | = Gram-Centimeter |
| | × .13/o3722 | = Horsepower US-Hour |
| | × .6/o1 | = Joule |
| | × .10/o23888 | = Kilogram-Calorie |
| | × .7/o10197 | = Kilogram-Meter |
| | × .13/o2778 | = Kilowatt-Hour |
| | × 671. | = Mass Unit |
| | × 624000. | = Mev |
| | × .10/o2778 | = Watt-Hour |
| | × .6/o1 | = Watt-Second |
| Erg Absorbed/Gram of Tissue or Water | × .0119 | = Rep |
| Erg/Second | × .8/o5692 | = Btu/Minute |

| | | |
|---|---|---|
| **Erg/Second** | × 1.0 | = Dyne-Centimeter/Second |
| | × .5/o4426 | = Foot-Pound/Minute |
| | × .7/o7376 | = Foot-Pound/Second |
| | × .9/o1360 | = Horsepower Metric |
| | × .9/o134102 | = Horsepower US |
| | × .8/o434 | = Kilogram-Calorie/Minute |
| | × .9/o1 | = Kilowatt |
| | × 1.0 | = Power Unit |
| | × .6/o1 | = Watt |
| ESU (Charge) | × 1. | = Electrostatic Unit |
| | × 1. | = Statcoulomb |
| Ethane Gas (60F-30"Hg). | = 1.0493 | = Specific Gravity (Air = 1) |
| Cubic Feet | × 1771. | = Btu Gross Combustion Heat |
| | × 16.9 | = Cuft Air for Combustion |
| | × .08034 | = Pound |
| Cuft Mixed Air-Gas | × 98.77 | = Btu Gross Combustion Heat |
| Flame Temperature | = 3670. | = Degree F. Maximum |
| Pound | × 22304. | = Btu Gross Combustion Heat |
| | × 12.45 | = Cubic Feet |
| | × 16.131 | = Pound Air for Combustion |
| Ethylene Gas (60F-30"Hg). | = .9684 | = Specific Gravity (Air = 1) |
| Cubic Feet | × 1560. | = Btu Gross Combustion Heat |
| | × 14.5 | = Cuft Air for Combustion |
| | × .07464 | = Pound |
| Cuft Mixed Air-Gas | × 102.89 | = Btu Gross Combustion Heat |
| Flame Temperature | = 3885. | = Degree F. Maximum |
| Pound | × 21625. | = Btu Gross Combustion Heat |
| | × 13.4 | = Cubic Feet |
| | × 14.820 | = Pound Air for Combustion |
| Europium: (Eu): #63:152.0 AW: | | |
| Evaporation Unit: Pound Water 212F | × 970.4 | = Btu |
| Expansion Coefficient/°F | × 1.8 | = Expansion Coeff/°C |
| Cubical | × .333 | = Linear Expansion |
| Linear | × 3.0 | = Cubical Expansion |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Exponents: Rule 1: | $(XYZ)^n$ | $= X^nY^nZ^n$ | $(2\times3\times4)^2$ | $= 2^2 3^2 4^2$ | $= 4\times9\times16$ | $= 576$ | | |
| 2: | $X^m/X^n$ | $= X^{m-n}$ | $5^6/5^4$ | $= 5^{6-4}$ | $= 5^2$ | $= 25$ | | |
| 3: | $(X/Y)^n$ | $= X^n/Y^n$ | $(4/5)^2$ | $= 4^2/5^2$ | $= 16/25$ | $= .64$ | | |
| 4: | $X^mX^n$ | $= X^{m+n}$ | $2^3 2^2$ | $= 2^{3+2}$ | $= 2^5$ | $= 32$ | | |
| 5: | $(X^m)^n$ | $= X^{mn}$ | $(2^3)^2$ | $= 2^{3\times2}$ | $= 2^6$ | $= 64$ | | |
| 6: | $X^o$ | $= 1$ | $100^o$ | $= 1$ | $8^o$ | $= 1$ | | |
| 7: | $X^{-n}$ | $= 1/X^n$ | $2^{-3}$ | $= 1/2^3$ | $= 1/8$ | $= .125$ | | |
| | | | $4^{-3/2}$ | $= 1/4^{3/2}$ | $= 1/\sqrt{4^3}$ | $= 1/8$ | $=$ | $.125$ |
| 8: | $X^{1/n}$ | $= \sqrt[n]{X}$ | $9^{3/2}$ | $= 9^{1+1/2}$ | $= 9\times9^{1/2}$ | $= 9\sqrt{9}$ | $9\times3$ | $= 27$ |

F

| | | |
|---|---|---|
| Fahrenheit Degree | - 65. | = Degree Day |
| | + 459.69 | = Degree Fahrenheit Absolute |
| | + 459.69 | = Rankine Degree |
| Minus 32 | × .555 | = Centigrade Degree |
| Minus 32 × .555 | + 273.16 | = Kelvin Degree |
| Fahrenheit Degree × Lb-Force × SpHt Btu/Lb-°F. | × Sec. Squared | = Btu × Foot |
| × SpHt Btu/Lb-°F | × Pound Mass | = Btu |
| Fahrenheit Degree/Btu/Hour/Square Foot | × 1761. | = Thermal Ohm/Sq Centimeter |
| Famm | × 3. | = Alnar |
| | × 6. | = Fot |
| | × 5.8445 | = Foot US |
| | × 1.7814 | = Meter |
| Fan: Built-in Ventilating: | = 100. | = Watt Avg Use |
| Cuft/Min × Inch Water Pressure | × .0001578 | = HP (100% Efficiency) |
| Efficiency Range | = 50 to 80 | = Percent Efficiency |
| Farad (C) | × .8/o1 | = Abfarad |
| | × 1. | = Capacitance Unit |
| | × Volt | = Coulomb |
| | × .8/o1 | = Electromagnetic Unit |
| | × 898776(6/o). | = Electrostatic Units |
| | × 1.0 | = Farad Absolute |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Farad (C) | × 1.000495 | = Farad International |
| | × 1(6/o). | = Microfarad |
| | × 8988(8/o). | = Statfarad |
| Farad Absolute | × 1.0 | = Farad |
| Farad International | × .999505 | = Farad Absolute |
| Faraday | × 9649. | = Abcoulomb |
| | × 26.80 | = Ampere-Hour |
| | × 96494. | = Coulomb |
| | × 28926(10/o). | = Statcoulomb |
| Fathom British | × 6.080 | = Feet |
| | × 1.8532 | = Meter |
| | × .001 | = Mile Nautical British |
| Fathom US | × .008333 | = Cable Length |
| | × 6. | = Feet |
| | × 72. | = Inch |
| | × 1.828804 | = Meter |
| | × 8. | = Span |
| | × 2. | = Yard |
| Feet Distance Doubled | × .25 | = Count/Minute |
| Feet/Hour | × .01666 | = Feet/Minute |
| | × .0002777 | = Feet/Second |
| | × .0001894 | = Mile/Hour |
| | × .5/o316 | = Mile/Minute |
| Feet/Minute | × .5080 | = Centimeter/Second |
| | × .01666 | = Feet/Second |
| | × .18288 | = Kilometer/Hour |
| | × .009868 | = Knot |
| | × .3048 | = Meter/Minute |
| | × .005080 | = Meter/Second |
| | × .01136 | = Mile/Hour |
| | × .0001894 | = Mile/Minute |
| Feet/Minute × Pipe Diam Squared Inch | × .0408 | = Gallon Water/Minute |
| × Pound Load | × .4/o30303 | = HP to Hoist Vertical |
| Feet/Second (fps) | × 30.48 | = Centimeter/Second |
| | × 3600. | = Feet/Hour |
| | × 60. | = Feet/Minute |
| | × 1.097 | = Kilometer/Hour |
| | × .59209 | = Knot |
| | × 18.29 | = Meter/Minute |
| | × .3048 | = Meter/Second |
| | × .68181818 | = Mile/Hour |
| | × .011363636 | = Mile/Minute |
| | × .00018939 | = Mile/Second |
| Feet/Second × Pipe Diam Squared Inch | × 2.44798 | = Gallon Water/Minute |
| × Pound Mass | × .0157 | = Foot-Pound |
| Feet/Second/Second (fpss) | × 1.09728 | = Kilometer/Hour/Second |
| | × .3048 | = Meter/Second/Second |
| | × .68182 | = Mile/Hour/Second |
| | × Slug | = Pound-Force |
| Ferric: Fe: | = +3 | = Valence |
| Ferrous: Fe: | = +2 | = Valence |
| Fiberbrick: Specific Heat | = .24 | = Btu/Pound/°F |
| Fiberglass: Specific Heat | = .18 | = Btu/Pound/°F |
| Fillet: Radius Squared | × .2146 | = Area |
| Firkin | × 9. | = Gallon Liquid US |
| | × 34.06798 | = Liter |
| | × 56. | = Pound Avoir Butter |
| Five-Gram | = 1(5/o). | = Gram |
| Floor Lamp (Home) | = 150 to 300 | = Watt/Lamp |
| Flour: Barrel | × 196. | = Pound |
| Cup | × .25 | = Pound |
| Fluorescent Light | = 15 to 40 | = Watt/Lamp |
| Give 3 Time More Light than Incandescent. Tubes Last 7 Times Longer than Incandescent. | | |
| Fluoride: F: | = −1 | = Valence |
| Fluorine: (F): #9:19.00 AW: | | |

| | | |
|---|---|---|
| Foot Board Measure | × 1.0 | = Board-Foot |
| Foot British | × 30.47997 | = Centimeter |
| | × .9999971 | = Foot US |
| | × .3047997 | = Meter |
| Footcandle (ftc) | × 1.0 | = Light Flux Density Unit |
| | × Sqft Area | = Lumen |
| | × 1. | = Lumen/Square Foot |
| | × 10.7639 | = Lumen/Square Meter |
| | × 10.7639 | = Lux |
| | × 1.076 | = Milliphot |
| | × .001076 | = Phot |
| Footcandle × Distance in Feet Squared | | = Candlepower |
| Foot Fourth Power × Pound-Force Density | = Pound-Force | × Second Squared |
| Foot-Grain (ftgr) | × 1937.1 | = Erg |
| | × .000142857 | = Foot-Pound |
| | × 1.9757 | = Gram-Centimeter |
| | × .00019371 | = Joule |
| Foot-Grain/Second | × .0001937 | = Watt |
| Footlambert (ftL) | × .0003425 | = Candle/Square Centimeter |
| | × .3183 | = Candle/Square Foot |
| | × .00221048 | = Candle/Square Inch |
| | × .001076 | = Lambert |
| | × Sqft Area | = Lumen |
| | × .0003425 | = Lumen/Sqcm/Steradian |
| | × 1.076 | = Millilambert |
| | × .000342 | = Stilb |
| Foot-Pound | × .00128530 | = Btu |
| | × .000323891 | = Calorie Large |
| | × 13558200. | = Dyne-Centimeter |
| | × 13558200. | = Erg |
| | × 32.174 | = Foot-Poundal |
| | × .323891 | = Gram-Calorie |
| | × 13825.5 | = Gram-Centimeter |
| | × .6/o51206 | = Horsepower-Hour Metric |
| | × .6/o50505 | = Horsepower-Hour US |
| | × .001840 | = Horsepower Metric-Second |
| | × .00181818 | = Horsepower US-Second |
| | × 12. | = Inch-Pound |
| | × 1.35582 | = Joule Absolute |
| | × 1.3554 | = Joule International |
| | × .0003238 | = Kilocalorie |
| | × .000323891 | = Kilogram-Calorie |
| | × .138255 | = Kilogram-Meter |
| | × .6/o376617 | = Kilowatt-Hour |
| | × .001356 | = Kilowatt-Second |
| | × .000713986 | = Lb-Chu |
| | × .01338 | = Liter-Atmosphere |
| | × 908(7/o). | = Mass Unit |
| | × 848(10/o). | = Mev |
| | × .6/o3840 | = Poncelet-Hour |
| | × .000713986 | = Pound-Chu |
| | × .000376617 | = Watt-Hour |
| | × 1.356 | = Watt-Second |
| Foot-Pound × Number Power Cycles | × .4/o303 | = Horsepower US |
| Foot-Poundal | × .4/o399484 | = Btu |
| | × 421402. | = Dyne-Centimeter |
| | × 421402. | = Erg |
| | × .031081 | = Foot-Pound |
| | × .0100669 | = Gram-Calorie |
| | × 429.711 | = Gram-Centimeter |
| | × .7/o156975 | = Horsepower-Hour US |
| | × .0421402 | = Joule |
| | × .7/o117056 | = Kilowatt-Hour |
| Foot-Pound/Hour | × .001284 | = Btu/Hour |
| | × .4/o2141 | = Btu/Minute |
| | × .6/o357 | = Btu/Second |

# F CONVERSION FACTORS

| | | | |
|---|---|---|---|
| Foot-Pound/Hour | × .01666 | = | Foot-Pound/Minute |
| | × .0002777 | = | Foot-Pound/Second |
| | × .6/o505 | = | Horsepower |
| | × .6/o3766 | = | Kilowatt |
| Foot-Pound/Minute | × .077118 | = | Btu/Hour |
| | × .0012853 | = | Btu/Minute |
| | × .4/o2141 | = | Btu/Second |
| | × 225900. | = | Erg/Second |
| | × .01666 | = | Foot-Pound/Second |
| | × .4/o3066 | = | Horsepower Metric |
| | × .4/o30303 | = | Horsepower US |
| | × .0003241 | = | Kilogram-Calorie/Minute |
| | × .4/o22597 | = | Kilowatt |
| | × .0113636 | = | Mile-Pound/Hour |
| | × .022597 | = | Watt |
| Foot-Pound/Second | × .07712 | = | Btu/Minute |
| | × .001285 | = | Btu/Second |
| | × 13558200. | = | Erg/Second |
| | × .3237 | = | Gram-Calorie/Second |
| | × 13825.5 | = | Gram-Centimeter/Second |
| | × .001843 | = | Horsepower Metric |
| | × .00181818 | = | Horsepower US |
| | × 1.356 | = | Joule |
| | × .01943 | = | Kilogram-Calorie/Minute |
| | × .0003237 | = | Kilogram-Calorie/Second |
| | × 8.29 | = | Kilogram-Meter/Minute |
| | × .138255 | = | Kilogram-Meter/Second |
| | × .00135582 | = | Kilowatt |
| | × 929.047 | = | Poise US |
| | × .00138255 | = | Poncelet |
| | × 1.35582 | = | Watt |
| Foot/Second Squared | × Pound-Mass | = | Pound-Force |
| Foot Squared/Hour | × 1.0 | = | Diffusion Coefficient |
| | × 1.0 | = | Eddy Diffusivity Unit |
| | × 1.0 | = | Eddy Kinematic Viscosity Unit |
| Foot US | × 30.48006096 | = | Centimeter |
| | × .01515 | = | Chain Gunter |
| | × 3.048 | = | Decimeter |
| | × .16666 | = | Fathom US |
| | × 1.0000029 | = | Foot British |
| | × 12. | = | Inch |
| | × .001 | = | Kilofoot |
| | × .0003048006 | = | Kilometer |
| | × 1.5 | = | Link |
| | × .3048006096 | = | Meter |
| | × 304801. | = | Micron |
| | × 12000. | = | Mil |
| | × .000164468 | = | Mile Nautical US |
| | × .000189394 | = | Mile Statute US |
| | × 304.801 | = | Millimeter |
| | × 3048(5/o). | = | Millimicron |
| | × .060606 | = | Rod |
| | × .3600 | = | Vara |
| | × .3333 | = | Yard |
| Forms: Plain Concrete: | = 2. | = | BF/Sqft Contact Area |
| Footing | = .03 | = | Carpenter-Hour/Sqft |
| | = .02 | = | Helper-Hour/Sqft |
| Pier | = .06 | = | Carpenter/Hour/Sqft |
| Pier or Wall | = .03 | = | Helper-Hour/Sqft |
| Slab | = .075 | = | Carpenter-Hour/Sqft |
| | = .03 | = | Helper-Hour/Sqft |
| Step or Lintel | = .09 | = | Carpenter-Hour/Sqft |
| | = .035 | = | Helper-Hour/Sqft |
| Wall | = .045 | = | Carpenter-Hour/Sqft |
| Reinf Concrete: Beam or Column | = .04 | = | Helper-Hour/Sqft |
| Drop Panel | = .09 | = | Carpenter-Hour/Sqft |

| | | |
|---|---|---|
| Forms: Reinf Concrete: Drop Panel | = .06 | = Helper-Hour/Sqft |
| Head or Stair | = .06 | = Helper-Hour/Sqft |
| Slab | = .03 | = Helper-Hour/Sqft |
| Slab or Beam | = .08 | = Carpenter-Hour/Sqft |
| Stair or Head | = .115 | = Carpenter-Hour/Sqft |
| Wall | = .05 | = Helper-Hour/Sqft |
| Wall or Column | = .085 | = Carpenter-Hour/Sqft |
| Stripping Plain Concrete: | = .03 | = Laborer-Hour/Sqft |
| Stripping Reinforced Concrete: | = .035 | = Laborer-Hour/Sqft |
| Fot | × .97408 | = Foot US |
| | × 100. | = Lines |
| | × .2969 | = Meter |
| | × 10. | = Turn |
| Four-Gram | = 10000. | = Gram |
| Foute | × 1.0 | = Foot US |
| Freezer: Home: | = 350 | = Watt Avg Use |
| Freezing Point | = 0.0 | = Degree Centigrade |
| | = 32.0 | = Degree Fahrenheit |
| | = 0.0 | = Degree Reamur |
| French Degree: Gallon US | × .583 | = Grain Calcium Carbonate |
| | × 1. | = Parts Cal. Carb/100000 |
| Friction Coefficient: Static | = .27 | = Leather Belt/Oak Drum-Dry |
| | = .61 | = Steel/Aluminum-Dry |
| | = .51 | = Steel/Brass-Dry |
| | = .95 | = Steel/Lead-Dry |
| | = .5 | = Steel/Lead-Greasy |
| | = .75 | = Steel/Steel-Dry |
| | = .27 | = Steel/Steel-Oxide Film |
| | = .11 | = Steel/Steel-Greasy |
| Static 5 mph | = .58 | = Tire/Pavement-Wet |
| Static 30 mph | = .42 | = Tire/Pavement-Wet |
| Sliding | = .52 | = Leather/Oak-Dry |
| | = .56 | = Leather/Steel-Dry |
| | = .48 | = Oak/Oak-Dry |
| | = .47 | = Steel/Aluminum-Dry |
| | = .44 | = Steel/Brass-Dry |
| | = .95 | = Steel/Lead-Dry |
| | = .3 | = Steel/Lead-Greasy |
| | = .42 | = Steel/Steel-Dry |
| | = .084 | = Steel/Steel-Greasy |
| | = .36 to .52 | = Tire/Pavement-Wet |
| Fuel Oil #2 or #3: Gallon | × 130000. | = Btu (Average) |
| Pound | × 18630. | = Btu (Heat Value) |
| Funt | × 9216. | = Doli |
| | × 409.512 | = Gram |
| | × 32. | = Loth |
| | × .9028 | = Pound Avoir US |
| | × 96. | = Solotnik |
| Furlong | × 6.6 | = Chain Engineer |
| | × 10. | = Chain Gunter |
| | × 660. | = Feet |
| | × 201.168 | = Meter |
| | × .125 | = Mile Statute US |
| | × 40. | = Perch-Pole-Rod |
| | × 220. | = Yard |
| Fuss | × .9842 | = Foot US |
| | × .300 | = Meter |

G

Gadolinium: (Gd): #64:156.9 AW:

| | | |
|---|---|---|
| Gage Pressure | + Atmos Press | = Absolute Pressure |
| Inch Mercury | × 70.7256 | = Pound/Sq Foot |
| | × .49115 | = Pound/Sq Inch |
| × .491 | + 2116.3536 | = Pound/Sq Foot Absolute |
| × .491 | + 14.6969 | = Pound/Sq Inch Absolute |
| (Vacuum) Pressure | - Atmos Press | = Absolute Pressure |

Gallium: (Ga): #31:69.72 AW:

# CONVERSION FACTORS

| | | |
|---|---|---|
| Gallon British-Imperial Liquid | × .125 | = Bushel Dry British |
| | × 4546. | = Cubic Centimeter |
| | × 4.546 | = Cubic Decimeter |
| | × .16046 | = Cubic Foot |
| | × 277.420 | = Cubic Inch British |
| | × 277.418 | = Cubic Inch US |
| | × 277.274 | = Cubic Inch Water 62F |
| | × .0045 | = Cubic Meter |
| | × 1.03202 | = Gallon Dry US |
| | × 1.200955 | = Gallon Liquid US |
| | × 32. | = Gill British |
| | × .0892 | = Hundredweight |
| | × 4.54596 | = Kilogram |
| | × 4.54596 | = Liter |
| | × .5 | = Peck British |
| | × 8. | = Pint British |
| | × 10. | = Pound Water 62F |
| | × 4. | = Quart British |
| | × .0045 | = Ton |
| Gallon Dry US | × .125 | = Bushel US Struck |
| | × 4404.92 | = Cubic Centimeter |
| | × .155555 | = Cubic Foot |
| | × 268.803 | = Cubic Inch |
| | × .005761 | = Cubic Yard |
| | × 1.1636501 | = Gallon Liquid US |
| | × 4.4049 | = Liter |
| | × .05 | = Peck |
| | × 8. | = Pint |
| | × 4. | = Quart Dry US |
| | × 4.65460 | = Quart Liquid US |
| Gallon Liquid US (gal) | × .5/o30688832 | = Acre-Foot Water |
| | × .031746 | = Barrel (31.5) |
| | × .0238095 | = Barrel (42) |
| | × .10742 | = Bushel US Struck |
| | × 3785.434 | = Cubic Centimeter |
| | × 3.785434 | = Cubic Decimeter |
| | × .133680555 | = Cubic Foot |
| | × 231. | = Cubic Inch Water 62F |
| | × .003785434 | = Cubic Meter |
| | × .004951 | = Cubic Yard |
| | × .3785 | = Decaliter |
| | × .8593649 | = Gallon Dry US |
| | × .8326735 | = Gallon Liquid British |
| | × 32. | = Gill US |
| | × 3778.92387 | = Gram Water 62F |
| | × .03785 | = Hectoliter |
| | × .0746 | = Hundredweight |
| | × 3.785 | = Liter |
| | × 3785.434 | = Milliliter |
| | × 128. | = Ounce Fluid US Apoth. |
| | × 8. | = Pint Liquid US |
| | × 8.3311 | = Pound Water 62F |
| | × 3.43747 | = Quart Dry US |
| | × 4. | = Quart Liquid US |
| | × .0037254 | = Ton Long Water 39.1F |
| | × .0037192 | = Ton Long Water 62F |
| | × .00416555 | = Ton Short Water 62F |
| Gallon Liquid US/Day | × .5/o15472286 | = Cubic Feet/Second |
| Gallon Liquid US/Hour | × .1337 | = Cubic Feet/Hour |
| | × .002228 | = Cubic Feet/Minute |
| | × .4/o371 | = Cubic Feet/Second |
| | × .01666 | = Gallon US/Minute |
| | × .0002777 | = Gallon US/Second |
| Gallon Liquid US/Minute (gpm) | × 34.28568 | = Barrel (42)/Day |
| | × 1.42857 | = Barrel (42)/Hour |
| | × .0238095 | = Barrel (42)/Minute |

| | | |
|---|---|---|
| Gallon Liquid US/Minute (gpm) | × 192.499992 | = Cubic Feet/Day |
| | × 8.02 | = Cubic Feet/Hour |
| | × .13368055 | = Cubic Feet/Minute |
| | × .002228 | Cubic Feet/Second |
| | × 1440. | = Gallon/Day |
| | × 60. | = Gallon/Hour |
| | × .01666 | = Gallon/Second |
| | × .002228 | = Second-Foot |
| | × 5.355648 | = Ton Long Water 62F/Day |
| | × 5.998392 | = Ton Short Water 62F/Day |
| × 24.51 | | = Diam. Inch Squared × Ft/Min (Pipe-Water) |
| × .4085 | | = Diam. Inch Squared × Ft/Sec (Pipe-Water) |
| × Sq Root of | (.4085/fps) | = Inch Pipe Diam. |
| × Ft Head | × .0002525 | = HP US (100% Pump Eff) |
| | × .000297 | = HP US ( 85% Pump Eff) |
| | × .0003885 | = HP US ( 65% Pump Eff) |
| | × .000505 | = HP US ( 50% Pump Eff) |
| Gallon Liquid US/Second (gps) | × 481. | = Cubic Feet/Hour |
| | × 8.02 | = Cubic Feet/Minute |
| | × .1337 | = Cubic Feet/Second |
| | × 60. | = Gallon US/Minute |
| Gallon Million/Day | × 133680.55 | = Cubic Foot/Day |
| | × 92.88 | = Cubic Foot/Minute |
| | × 1.548 | = Cubic Foot/Second |
| | × 694.44 | = Gallon/US/Minute |
| | × 11.57 | = Gallon US/Second |
| Gallon/Minute × Head in Feet | × .0003885 | = Horsepower US |
| Gallon/Minute/Day | × .0042 | = Acre-Foot |
| Gamma | × 1.0 | = Microgram |
| | × .001 | = Milligram |
| Garbage Disposer (Home): | = 600 | = Watt (Avg Use) |
| Gas: Compressed:#/Hr × BTU/# Enthalpy Change | × .0004625 | = HP Input (85% Eff) |
| Gas: Constant: (R) | = 1.9872 | = Calorie/°K |
| | = 82.06 | = co-Atmos/gm-mole-°K |
| | = 10.7 | = cuft-Lb/sq in/Lb-Mole-°R |
| | = 2780. | = Ft-Lb-Force/Lb-Mole-°K |
| | = 1545. | = Ft-Lb-Force/Lb-Mole-°R |
| | = 1.99 | = gm-calorie/gm-mole-°K |
| Universal | = 1545. | = Foot-Pound/°R (Mole) |
| | = 847.2 | = Kilogram-Meter |
| Gas: Density: Lb/Cuft × °K | × 1.315 | = Molecular Wgt × Press. In Atmos |

Gas: Formulae:

| | |
|---|---|
| New Absolute Temperature | = T = Pt/p = Vt/v = PVt/pv = wtPV/Wpv |
| Old Absolute Temperature | = t = pT/P = vT/V = vpT/PV = WTpv/wPV |
| New Density | = W = wt/T = wtPV/Tpv |
| Old Density | = w = WT/t = WTvp/tPV |
| New Absolute Pressure | = P = pv/V = pT/t = vpT/Vt = WTpv/wtV |
| Old Absolute Pressure | = p = PV/v = Pt/T = PVt/vT = wtPV/WTv |
| New Volume | = V = pv/P = vT/t = vpT/Pt = WTpv/wtP |
| Old Volume | = v = PV/p = Vt/T = PVt/pT = wtPV/WTp |

pv = RT (psf abs × cuft/# = R × °Rankine)

| | | |
|---|---|---|
| Gas: Gram-Mole (32F:29.92"Hg) | × 22412. | = Cubic Centimeter |
| Gram Weight/Liter | × 22.4 | = Gram-Molecular Wgt |
| Molecular Weight | × .5 | = Vapor Density |
| Pound-Mol (32F:14.7 psi) | × 359. | = Cubic Foot |
| Specific Gravity | × 28.9 | = Gram-Molecular Wgt |
| Vapor Density | × 2. | = Gram-Molecular Wgt |
| Gas: Manufactured: Cubic Foot | × 500. | = Btu (Average) |
| | × .042 | = Lb Anthracite Heat Value |
| Gasoline (60 API): Barrel (42) | × 255.367 | = Pound (Avg.) |
| Ton Metric | × 8.6 | = Barrel (42)—Avg. |
| Gasoline: Cubic Foot | × 45.52 | = Pound (Avg.) |
| Gallon | × 122953. | = Btu (Heat Value)—Avg. |
| | × 6.05 | = Pound (Avg.) |
| Pound | × 20379. | = Btu (Heat Value)—Avg. |
| | × 136. | = Btu (Heat of Vaporization) Avg. |
| Gauss | × 1.0 | = Electromagnetic Unit |

| | | |
|---|---|---|
| Gauss | × .9/o33 | = Electrostatic Unit |
| | × 1.0 | = Gauss Absolute |
| | × .99966 | = Gauss International |
| | × 1.0 | = Line/Square Centimeter |
| | × 6.45163 | = Line/Square Inch |
| | × 1. | = Maxwell/Square Centimeter |
| | × 6.45163 | = Maxwell/Square Inch |
| | × .10/o333585 | = Magnetic Flux Density Unit |
| | × .10/o333585 | = Statweber |
| | × .7/o1 | = Volt-Second/Square Centimeter |
| | × .7/o1 | = Weber/Square Centimeter |
| | × .7/o645163 | = Weber/Square Inch |
| | × .0001 | = Weber/Square Meter |
| Gauss International | × 1.00034 | = Gauss Absolute |
| Gears: Meshed: Number Teeth of Driven | × Speed Ratio | = Number Teeth of Driver |
| rpm of Driver | × Speed Ratio | = rpm of Driven |
| Geepound | × 14.594 | = Kilogram-Mass-Meter |
| | × 1.4881 | = Kilogram-Slug |
| | × 1.0 | = Pound/Foot/Second Squared |
| | × 32.1739 | = Pound-Mass |
| | × 1.0 | = Slug (Common) |
| | × 1.0 | = Slug-Mass |
| Geiger Counter: Shielded with 2mm Lead | = (K-k)/k | = U (Use Below) |
| Metric Ton of Ore × U | × 25. | = Grams of Uranium |
| | × .875 | = Ounces of Uranium |
| Number Clicks @ Ore Body | = K | k = Number Cosmic Ray Clicks |
| German Degree: | × 1.0 | = Part Calcium Oxide/100000 |
| Gallon Liquid US | × 1.044 | = Grains Calcium Carbonate |
| Germanium: (Ge): #32:72.60 AW: | | |
| German Silver: Cubic Foot | × 555.58 | = Pound |
| Gilbert | × .07958 | = Abampere-Turn |
| | × .7958 | = Ampere-Turn |
| | × 1.00005 | = Gilbert International |
| | × 1.0 | = Magnetomotive Force Unit |
| | × .79577 | = Number Turn × Ampere |
| Gilbert/Centimeter | × .07958 | = Abampere-Turn/Centimeter |
| | × .7958 | = Ampere-Turn/Centimeter |
| | × 2.0213 | = Ampere-Turn/Inch |
| | × 79.58 | = Ampere-Turn/Meter |
| | × 1.0 | = Oersted |
| Gilbert International | × .99995 | = Gilbert |
| Gill Liquid US | × 118.29 | = Cubic Centimeter |
| | × .00418 | = Cubic Feet |
| | × 7.21875 | = Cubic Inch |
| | × 1.18292 | = Deciliter |
| | × .02686 | = Gallon Dry US |
| | × .03125 | = Gallon Liquid US |
| | × .118292 | = Liter |
| | × 118.292 | = Milliliter |
| | × 4. | = Ounce Fluid |
| | × .25 | = Pint Liquid US |
| | × .10742 | = Quart Dry US |
| | × .125 | = Quart Liquid US |
| Glass: Cubic Foot | × 150 to 187 | = Pound |
| Specific Heat | = .19 | = Btu/Pound/°F |
| Wool: Specific Heat | = .24 | = Btu/Pound/°F |
| Globe: Circumference | × Diameter | = Surface Area |
| Diameter Squared | × 3.1416 | = Surface Area |
| Radius Squared | × 12.5664 | = Surface Area |
| Glycerine: Cubic Foot | × 78. | = Pound |
| Gallon | × 10. | = Pound |
| Gneiss Building Stone: Cubic Foot | × 168. | = Pound |
| Ton | × 11.9 | = Cubic Feet |
| Gold: (Au):#79:197.2 AW: .0308 Split: 19.3 gm/cc: | | |
| Cubic Foot | × 1206.09 | = Pound at 68F |
| Linear Expansion: Inch | × 7.8 | = Micro-Inch/Degree F. |

| | | |
|---|---|---|
| Gold: Point | = 1336. | = Degree Kelvin |
| Grade | × .0025 | = Circle |
| | × 9000. | = Degree |
| | × 54. | = Minute |
| | × .015708 | = Radian |
| | × 3240. | = Second |
| Grain | × .01666 | = Dram Apoth |
| | × .03657 | = Dram Avoir |
| | × 63.5453 | = Dyne |
| | × 1.0 | = Grain Apothecaries |
| | × 1.0 | = Grain Avoirdupois |
| | × 1.0 | = Grain Troy |
| | × .064798918 | = Gram |
| | × .4/o64798918 | = Kilogram |
| | × 64.798918 | = Milligram |
| | × .00228571 | = Ounce Avoir |
| | × .00208333 | = Ounce Apoth-Troy |
| | × .041667 | = Pennyweight |
| | × .0001428571 | = Pound Avoir |
| | × .0001736 | = Pound Apoth-Troy |
| | × .05 | = Scruple |
| | × .7/o7143 | = Ton Short |
| | × .7/o6378 | = Ton Long |
| | × .7/o6480 | = Ton Metric |
| Grain Calcium Carbonate/US Gallon | × 1.20 | = Clark Degree |
| | × 1.71 | = French Degree |
| | × .958 | = German Degree |
| Grain/Cubic Foot | × .4/o647989 | = Milligram/Cubic Foot |
| | × .0023 | = Milligram/Cubic Meter |
| Grain/1000 Cubic Feet | × .065 | = Milligram/Cubic Foot |
| | × 2.3 | = Milligram/Cubic Meter |
| Grain/Gallon Liquid British | × 14.254 | = Part/Million |
| Grain/Gallon Liquid US | × .01714 | = Gram/Liter |
| | × .0015 | = Lb Soap to Precipitate Hardness |
| | × 1.7118 | = Parts/100000 |
| | × 17.118 | = Parts/Million |
| | × 142.86 | = Pounds/Million Gallons |
| Grain Gold (Assay Extracted) | × 1.0 | = Ounce Troy/Ton of Ore |
| Grain/Inch | × .02551 | = Gram/Centimeter |
| | × 2.5511 | = Kilogram/Kilometer |
| | × .0025511 | = Kilogram/Meter |
| | × .00171429 | = Pound/Foot |
| | × .0001429 | = Pound/Inch |
| | × 9.0514 | = Pound/Mile |
| | × .00514286 | = Pound/Yard |
| | × .004041 | = Ton Long/Mile |
| | × .002551 | = Ton Metric/Mile |
| | × .004526 | = Ton Short/Mile |
| Grain Pearl | × .05 | = Gram |
| Gram (g) | × 5. | = Carat |
| | × 3.858 | = Carat Metric |
| | = 1.0 | = cc Water 4C |
| | × 100. | = Centigram |
| | × .1 | = Decagram |
| | × 10. | = Decigram |
| | × 20. | = Denier |
| | × .2572059 | = Dram Apoth |
| | × .5643833 | = Dram Avoir |
| | × 980.665 | = Dyne |
| | × 15.432356 | = Grain |
| | × .01 | = Hectogram |
| | × .4/o9807 | = Joule/Centimeter |
| | × .009807 | = Joule/Meter |
| | × .001 | = Kilogram |
| | × 1000. | = Milligram |
| | × .009807 | = Newton |

# G CONVERSION FACTORS

| | | |
|---|---|---|
| Gram (g) | × .0321507 | = Ounce Apoth-Troy |
| | × .03527396 | = Ounce Avoir |
| | × .00268 | = Pound Apoth-Troy |
| | × .00220462 | = Pound Avoir → 454 gm/lb |
| | × .0026792 | = Pound Troy |
| | × .07093 | = Poundal |
| | × .771618 | = Scruple |
| | × .6/o984 | = Ton Long |
| | × .5/o1 | = Ton Metric |
| | × .5/o1102 | = Ton Short |
| Gram-Calorie (g-cal) (cal) | × .00396832 | = Btu |
| | × .0022 | = Chu |
| | × 41860500. | = Erg |
| | × 3.08746 | = Foot-Pound |
| | × 99.366 | = Foot-Poundal |
| | × 42685.8 | = Gram-Centimeter |
| | × .5/o155932 | = Horsepower-Hour |
| | × 4.18605 | = Joule (Heat Equivalent) |
| | × .001 | = Kilogram-Calorie |
| | × .426858 | = Kilogram-Meter |
| | × .5/o116279 | = Kilowatt-Hour |
| | × .001 | = Large Calorie |
| | × .04129 | = Liter-Atmosphere |
| | × 281(8/o). | = Mass Unit |
| | × .999658 | = Mean Calorie |
| | × 262(11/o). | = Mev |
| | × .00996 | = Ostwald Calorie |
| | × .002204 | = Pound-Calorie |
| | × 1. | = Small Calorie or Calorie |
| | × .00116279 | = Watt-Hour |
| | × 4.18605 | = Watt-Second |
| Gram-Calorie/Gram | × 1.8 | = Btu/Pound |
| Gram-Calorie/Gram/°C | × 1.8 | = Btu/Pound/°C |
| | × 1.0 | = Btu/Pound/°F |
| | × 4.186 | = Joule/Gram/°C |
| | × 1055. | = Joule/Pound/°F |
| | × 1.0 | = Kg-Cal/Kg/°C |
| | × .001163 | = Kw-Hr/Kg/°C |
| | × .000293 | = Kw-Hr/Pound/°F |
| | × 1.0 | = Specific Heat Unit |
| Gram-Calorie/Hr/Sqcm | × 88.48 | = Btu/Day/Sqft |
| | × 3.687 | = Btu/Hr/Sqft |
| | × .0002778 | = Gram-Calorie/Sec/Sqcm |
| | × .001163 | = Watt/Sqcm |
| Gram-Calorie/Hour/Sqcm/°C | × 49.16 | = Btu/Day/Sqft/°F |
| | × 2.048 | = Btu/Hr/Sqft/°F |
| | × .0002778 | = Gram-Calorie/Sec/Sqcm/°C |
| | × .001163 | = Watt/Sqcm/°C |
| Gram-Calorie/Hr/Sqcm/cm/°C | × 19.35 | = Btu/Day/Sqft/In/°F |
| | × .0672 | = Btu/Hr/Sqft/Ft/°F |
| | × .8058 | = Btu/Hr/Sqft/Inch/°F |
| | × .0002778 | = Gram-Calorie/Sec/Sqcm/cm/°C |
| | × .001163 | = Watt/Sqcm/cm/°C |
| Gram-Calorie Mean (0-100C) | × 1.001 | = Calorie IT |
| Gram-Calorie/Minute | × 3.086 | = Foot-Pound/Minute |
| | × .00514 | = Foot-Pound/Second |
| | × .4/o935595 | = Horsepower US |
| | × .0000948 | = Horsepower Metric |
| | × .4/o697674 | = Kilowatt |
| | × .0697674 | = Watt |
| | × .0697534 | = Watt International |
| Gram-Calorie/Second | × .00396832 | = Btu/Second |
| | × 3.08746 | = Foot-Pound/Second |
| | × .00561357 | = Horsepower US |
| | × .005692 | = Horsepower Metric |
| | × .001 | = Kilogram-Calorie/Second |

| | | |
|---|---|---|
| Gram-Calorie/Second | × .4269 | = Kilogram-Meter/Second |
| | × .00418605 | = Kilowatt |
| | × 4.18605 | = Watt |
| Gram-Calorie/Sec/Sqcm | × 318531. | = Btu/Day/Sqft |
| | × 13272. | = Btu/Hr/Sqft |
| | × 3600. | = Gram-Calorie/Hr/Sqcm |
| | × 4.187 | = Watt/Sqcm |
| Gram-Calorie/Sec/Sqcm/°C | × 176962. | = Btu/Day/Sqft/°F |
| | × 7373. | = Btu/Hr/Sqft/°F |
| | × 3600. | = Gram-Calorie/Hr/Sqcm/°C |
| | × 4.187 | = Watt/Sqcm/°C |
| Gram-Calorie/Sec/Sqcm/cm/°C | × 69670. | = Btu/Day/Sqft/In/°F |
| | × 241.9 | = Btu/Hr/Sqft/Ft/°F |
| | × 2903. | = Btu/Hr/Sqft/In/°F |
| | × 3600. | = Gram-Calorie/Hr/Sqcm/cm/°C |
| | × 1.0 | = Gram-Calorie/Sec/Sqcm/cm/°C |
| | × 4.186 | = Joule/Sec/Sqcm/cm/°C |
| | × 850.6 | = Joule/Sec/Sqft/In/°F |
| | × 36000. | = Kg-Cal/Hr/Sqm/cm/°C |
| | × .8506 | = Kw-Hr/Hr/Sqft/In/°F |
| | × 41.86 | = Kw-Hr/Hr/Sqm/cm/°C |
| | × 4.186 | = Thermal Ohm/Sec/Sqcm/cm/°C |
| | × 4.18605 | = Watt/Sqcm/cm/°C |
| Gram-Calorie Thermochemical | × .0039657 | = Btu |
| | × .99935 | = Calorie IT |
| | × .021430 | = Cuft-Lb-Wgt/Sqin |
| | × 41.2929 | = Cucm-Atmosphere |
| | × 3.08595 | = Foot-Pound-Weight |
| | × .5/o155856 | = Horsepower-Hour US |
| | × .5/o116203 | = Kilowatt-Hour Int |
| | × .0412917 | = Liter-Atmosphere |
| Gram-Centimeter | × .7/o929658 | = Btu |
| | × 980.665 | = Dyne-Centimeter |
| | × 980.665 | = Erg |
| | × .4/o7233 | = Foot-Pound |
| | × .00232714 | = Foot-Poundal |
| | × .4/o23427 | = Gram-Calorie |
| | × .10/o3654 | = Horsepower US/Hour |
| | × .4/o980665 | = Joule |
| | × .7/o23427 | = Kilogram-Calorie |
| | × .4/o1 | = Kilogram-Meter |
| | × .10/o2724 | = Kilowatt-Hour |
| | × .000980665 | = Newton-Meter |
| | × .4/o980665 | = Watt-Second |
| | × .7/o2724 | = Watt-Hour |
| Gram-Centimeter/Second | × 980.665 | = Erg/Second |
| | × .4/o980665 | = Watt |
| Gram-Centimeter Squared | × .6/o1 | = Kilogram-Meter Squared |
| | × .000341716 | = Pound-Inch Squared |
| | × .5/o237303 | = Pound-Foot Squared |
| | × .7/o737507 | = Slug-Foot Squared |
| Gram-Cubic Centimeter | × 980.665 | = Dyne/Cubic Centimeter |
| | × .437 | = Grain/Cubic Foot |
| | × 1000. | = Kilogram/Cubic Meter |
| | × 62.4283 | = Pound/Cubic Foot |
| | × .03613 | = Pound/Cubic Inch |
| | × 1685.56 | = Pound/Cubic Yard |
| | × 8.345 | = Pound/Gallon Liquid US |
| | × .6/o3405 | = Pound/Mil-Foot |
| | × 1.162283 | = Poundal/Cubic Inch |
| | × .7525 | = Ton Long/Cubic Yard |
| | × 1.0 | = Ton Metric/Cubic Meter |
| | × .8428 | = Ton Short/Cubic Yard |
| Gram/Hour | × .024 | = Kilogram/Day |
| | × .28183 | = Kilo-ounce Troy/Year |
| | × .27777 | = Milligram/Second |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Gram/Hour | × .035274 | = Ounce Avoir/Hour |
| | × .77162 | = Ounce Troy/Day |
| | × .032151 | = Ounce Troy/Hour |
| | × .0529111 | = Pound Avoir/Day |
| | × .0022046 | = Pound Avoir/Hour |
| | × .0087658 | = Ton Metric/Year |
| | × .0096626 | = Ton Short Avoir/Year |
| Gram/Liter | × 58.418 | = Grain/Gallon |
| | × 22.4 | = Gram-Molecular Weight (Gas) |
| | × .134 | = Ounce Avoir/Gallon US |
| | × 1000. | = Part/Million |
| | × 2.44 | = Pennyweight/Gallon US |
| | × .062427 | = Pound/Cubic Foot |
| | × .008345 | = Pound/Gallon |
| Gram-Mass | × 1.0 | = Dyne/cm/Sec Squared |
| | × °C | = Gram-Calorie |
| Gram-Mass/Centimeter | × 980.665 | = Dyne/Centimeter |
| | × 39.1983 | = Grain/Inch |
| | × 100. | = Kilogram/Kilometer |
| | × .10 | = Kilogram/Meter |
| | × .067197 | = Pound/Foot |
| | × .0056 | = Pound/Inch |
| | × 354.80 | = Pound/Mile |
| | × .201591 | = Pound/Yard |
| | × .180154 | = Poundal/Inch |
| | × .15839 | = Ton Long/Mile |
| | × .10 | = Ton Metric/Mile |
| | × .17740 | = Ton Short/Mile |
| Gram-Mass/Centimeter-Hour | × .0278 | = Centipoise |
| | × .000278 | = Dyne-Second/Sq Centimeter |
| | × 2.78 | = Dyne-Second/Sq Meter |
| | × .00179 | = Dyne-Second/Sq Inch |
| | × .258 | = Dyne-Second/Sq Foot |
| | × .000278 | = Gram-Mass/Centimeter-Second |
| | × .00166 | = Gram-Mass/Centimeter-Minute |
| | × .6/o278 | = Kilogram-Mass/Centimeter-Second |
| | × .4/o278 | = Kilogram-Mass/Meter-Second |
| | × .00166 | = Kilogram-Mass/Meter-Minute |
| | × .1 | = Kilogram-Mass/Meter-Hour |
| | × .5/o283 | = Kilogram-Force-Second/Sq Meter |
| | × .000278 | = Poise |
| | × .5/o625 | = Pound-Force-Second/Sq Meter |
| | × .8/o403 | = Pound-Force-Second/Sq Inch |
| | × .6/o58 | = Pound-Force-Second/Sq Foot |
| | × .10/o672 | = Pound-Force-Minute/Sq Inch |
| | × .8/o967 | = Pound-Force-Minute/Sq Foot |
| Gram-Mass/Centimeter-Hour | × .8/o614 | = Pound-Mass/Centimeter-Second |
| | × .5/o155 | = Pound-Mass/Inch-Second |
| | × .4/o186 | = Pound-Mass/Foot-Second |
| | × .6/o367 | = Pound-Mass/Centimeter-Minute |
| | × .4/o934 | = Pound-Mass/Inch-Minute |
| | × .00112 | = Pound-Mass/Foot-Minute |
| | × .5/o217 | = Pound-Mass/Centimeter-Hour |
| | × .0056 | = Pound-Mass/Inch-Hour |
| | × .0671 | = Pound-Mass/Foot-Hour |
| | × .8/o614 | = Poundal-Second/Sq Centimeter |
| | × .5/o155 | = Poundal-Second/Sq Inch |
| | × .4/o186 | = Poundal-Second/Sq Foot |
| | × .6/o367 | = Poundal-Minute/Sq Centimeter |
| | × .4/o934 | = Poundal-Minute/Sq Inch |
| | × .00112 | = Poundal-Minute/Sq Foot |
| | × .5/o217 | = Poundal-Hour/Sq Centimeter |
| | × .0056 | = Poundal-Hour/Sq Inch |
| | × .0671 | = Poundal-Hour/Sq Foot |
| Gram-Mass/Centimeter-Minute | × 1.66 | = Centipoise |
| | × .0166 | = Dyne-Second/Sq Centimeter |

| | | |
|---|---|---|
| Gram-Mass/Centimeter-Minute | × 166. | = Dyne-Second/Sq Meter |
| | × .107 | = Dyne-Second/Sq Inch |
| | × 15.5 | = Dyne-Second/Sq Foot |
| | × .0166 | = Gram-Mass/Centimeter-Second |
| | × 60. | = Gram-Mass/Centimeter-Hour |
| | × .4/o166 | = Kilogram-Mass/Centimeter-Second |
| | × .00166 | = Kilogram-Mass/Meter-Second |
| | × .1 | = Kilogram-Mass/Meter-Minute |
| | × 6. | = Kilogram-Mass/Meter-Hour |
| | × .00017 | = Kilogram-Force-Second/Sq Meter |
| | × .0166 | = Poise |
| | × .000374 | = Pound-Force-Second/Sq Meter |
| | × .6/o242 | = Pound-Force-Second/Sq Inch |
| | × .4/o348 | = Pound-Force-Second/Sq Foot |
| | × .8/o404 | = Pound-Force-Minute/Sq Inch |
| | × .6/o58 | = Pound-Force-Minute/Sq Foot |
| | × .6/o368 | = Pound-Mass/Centimeter-Second |
| | × .4/o933 | = Pound-Mass/Inch-Second |
| | × .00112 | = Pound-Mass/Foot-Second |
| | × .4/o22 | = Pound-Mass/Centimeter-Minute |
| | × .0056 | = Pound-Mass/Inch-Minute |
| | × .067 | = Pound-Mass/Foot-Minute |
| | × .3/o13 | = Pound-Mass/Centimeter-Hour |
| | × .336 | = Pound-Mass/Inch-Hour |
| | × 4.04 | = Pound-Mass/Foot-Hour |
| | × .6/o368 | = Poundal-Second/Sq Centimeter |
| | × .4/o933 | = Poundal-Second/Sq Inch |
| | × .00112 | = Poundal-Second/Sq Foot |
| | × .4/o22 | = Poundal-Minute/Sq Centimeter |
| | × .0056 | = Poundal-Minute/Sq Inch |
| | × .067 | = Poundal-Minute/Sq Foot |
| | × .3/o13 | = Poundal-Hour/Sq Centimeter |
| | × .336 | = Poundal-Hour/Sq Inch |
| | × 4.04 | = Poundal-Hour/Sq Foot |
| Gram-Mass/Centimeter-Secvond | × 100. | = Centipoise |
| | × 1. | = Dyne-Second/Sq Centimeter |
| | × 10000. | = Dyne-Second/Sq Meter |
| | × 6.45 | = Dyne-Second/Sq Inch |
| | × 929.03 | = Dyne-Second/Sq Foot |
| | × 60. | = Gram-Mass/Centimeter-Minute |
| | × 3600. | = Gram-Mass/Centimeter-Hour |
| | × .001 | = Kilogram-Mass/Centimeter-Second |
| | × .1 | = Kilogram-Mass/Meter-Second |
| | × 6. | = Kilogram-Mass/Meter-Minute |
| | × 360. | = Kilogram-Mass/Meter-Hour |
| | × .010194 | = Kilogram-Force-Second/Sq Meter |
| | × 1. | = Poise |
| | × .02247 | = Pound-Force-Second/Sq Meter |
| | × .4/o145 | = Pound-Force-Second/Sq Inch |
| | × .00209 | = Pound-Force-Second/Sq Foot |
| | × .6/o242 | = Pound-Force-Minute/Sq Inch |
| | × .4/o348 | = Pound-Force-Minute/Sq Foot |
| | × .4/o2204 | = Pound-Mass/Centimeter-Second |
| | × .0056 | = Pound-Mass/Inch-Second |
| | × .0672043 | = Pound-Mass/Foot-Second |
| | × .001322 | = Pound-Mass/Centimeter-Minute |
| | × .336 | = Pound-Mass/Inch-Minute |
| | × 4.032 | = Pound-Mass/Foot-Minute |
| | × .007837 | = Pound-Mass/Centimeter-Hour |
| | × 20.16 | = Pound-Mass/Inch-Hour |
| | × 241.93548 | = Pound-Mass/Foot-Hour |
| | × .4/o2204 | = Poundal-Second/Sq Centimeter |
| | × .0056 | = Poundal-Second/Sq Inch |
| | × .0672 | = Poundal-Second/Sq Foot |
| | × .00132 | = Poundal-Minute/Sq Centimeter |
| | × .336 | = Poundal-Minute/Sq Inch |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Gram-Mass/Centimeter-Second | × 4.032 | = Poundal-Minute/Sq Foot |
| | × .0078 | = Poundal-Hour/Sq Centimeter |
| | × 20.16 | = Poundal-Hour/Sq Inch |
| | × 241.93 | = Poundal-Hour/Sq Foot |
| | × Rhe | = 1.0 |
| Gram-Mole | × 1.986 | = Btu/°R |
| | × 82.0567 | = Cucm × Atmos/°K |
| | × 1.98719 | = Gram-Calorie/°K |
| | × 8.31439 | = Joule Absolute/°K |
| | × 8.3130 | = Joule Int/°K |
| | × .0005819 | = Kw-hr/°R |
| | × .820544 | = Liter × Atmos/°K |
| | × .08314 | = Liter × Bar/°K |
| | × .08478 | = Liter × (kg/sqcm)/°K |
| | × 62.361 | = Liter × mmHg/°K |
| Gram-Molecule | × 1.0 | = Mol or Mole |
| | × Gram | = Molecular Weight |
| (Gas 32F-29.921"Hg) | × 22380. | = Cubic Centimeter Volume |
| | × 22.38 | = Liter Volume |
| Gram-Molecular Weight | × .0446 | = Gram/Liter (Gas) |
| | × .0346 | = Specific Gravity (Gas) |
| | × .5 | = Vapor Density (Gas) |
| Gram-One (Bennett System) | = 10. | = Gram |
| Two | = 100. | = Gram |
| Three | = 1000. | = Gram |
| Four | = 10000. | = Gram |
| Five | = 100000. | = Gram |
| Six | = 1000000. | = Gram (Etc.) |
| Gram/Square Centimeter | × .96778 | = Atmosphere 76cm |
| | × 980.665 | = Dyne/Square Centimeter |
| | × 32.8083 | = Feet Water 39.1F |
| | × .02895 | = Inch Mercury 13.596 spg |
| | × .1 | = Kilogram/Square Meter |
| | × 10. | = Meter Water 39.1F |
| | × .07355 | = Millimeter Mercury |
| | × 2048.17 | = Pound/Square Foot |
| | × .01422 | = Pound/Square Inch |
| | × .457592 | = Poundal/Square Inch |
| | × 1.02408 | = Ton Short/Square Foot |
| | × 980.7 | = Bar |
| | × .007356 | = Centimeter Mercury 32F |
| | × .9143 | = Ton Long/Square Foot |
| | × .9807 | = Newton/Sq Meter |
| | × 393.6 | = Inch Water 39.1F |
| | × .00224 | = Feet Mercury 13.596 spg |
| | × .9138 | = Ton Long/Sqft |
| | × .0063 | = Ton Long/Sqin |
| | × .007 | = Ton Short/Sqin |
| | × .01 | = Centigram/Sq Meter |
| | × .1 | = Meter Water 39.1F |
| Gram/Square Inch/Hour | × 360000. | = mg/Sqdm/Day |
| Gram/Square Millimeter | × 204.768 | = Pound/Sqft |
| | × 1.422 | = Pound/Square Inch |
| | × .0914 | = Ton Long/Sqft |
| | × .4/o71 | = Ton Long/Sqin |
| | × .10238 | = Ton Short/Sqft |
| | × .0007 | = Ton Short/Sqin |
| Granite: Crushed 3/4": Cubic Yard | × 2500. | = Pound |
| 1-1/2": Cubic Yard | × 2400. | = Pound |
| 3/4": Ton | × .80 | = Cubic Yard |
| 1-1/2": Ton | × .832 | = Cubic Yard |
| Cubic Foot | × 156.06 | = Pound (low) |
| | × 187.28 | = Pound (high) |
| Linear Expansion: Inch | × 4.6 | = Micro-Incn/Degree F |
| Ton | × 11.7 | = Cubic Feet |
| Gravel: Coarse: Cubic Foot | × .0435 | = Ton |

| | | |
|---|---|---|
| Gravel: Coarse: Cubic Yard | × 2700. | = Pound |
| | × 1.227 | = Ton |
| Natural Slope: | = 40. | = Degree |
| Ton | × .74 | = Cubic Yard |
| Washed-Screened: Cubic Foot | × 82. | = Pound |
| Gravity: Acceleration | = 980.665 | = Dyne |
| | = 32.2 | = Feet/Sec Squared (Common) |
| | = 385.92 | = Inch/Sec Squared |
| | × Time | = Velocity |
| Acceleration Standard | = 980.665 | = cm/Sec Squared |
| | = 32.1740 | = Feet/Sec Squared |
| | = 32.174 | = Lb-Mass-Ft/Lb-Force-Sec Squared |
| | = 9.80665 | = m/Sec Squared |
| Feet/Second Squared | × .015547 | = Height in Feet |
| Height | × 64.4 | = Velocity Squared |
| Height Feet | × 64.4 | = Feet/Second Squared |
| Square Root Feet Height | × 8.02 | = Feet/Second |
| Square Root Feet Height | × .24938 | = Time in Second |
| Time: Seconds Squared | × 16.1 | = Feet Falling Distance |
| Velocity Squared | × .015547 | = Height |
| Green | = 5750. | = Angstrom |
| | = 22.6 | = Micro-Inch |
| Gross | × 12. | = Dozen |
| | = .0069445 | = Reciprocal |
| | × 144. | = Unit |
| Gross Great | × 144. | = Dozen |
| | × 12. | = Gross |
| | × 1728 | = Unit |

Hafnium: (Hf): #72:178.6 AW: H

| | | |
|---|---|---|
| Hairs-Breadth | × .020833 | = Inch |
| Hand | × 10.16002 | = Centimeter |
| | × 4. | = Inch |
| Hank: | × 840. | = Yard (Cotton) |
| | × 560. | = Yard (Worsted) |
| Alpaca-Camel Hair-Cashmere | × 560. | = Yard/Pound Avoir. |
| Cotton-Spun Rayon-Spun Silk | × 840. | = Yard/Pound Avoir. |
| Mohair-Worsted | × 560. | = Yard/Pound Avoir |
| Ramie | × 300. | = Yard/Pound Avoir |
| Or Lea: Hemp-Linen | × 300. | = Yard/Pound Avoir |
| Cut or Skein | × 1.0 | = Count |
| Hard Pan: Square Foot of Area | × 2. to 2.5 | = Ton (Support) |
| Hauling (Load-Haul-Dump): Hour/Ton | × .0019 | = Hour/Barrel (Cement-Line) |
| | × .4/o24 | = Hour/Brick (Piled) |
| | × .024 | = Hour/1000 Brick (Piled) |
| | × .4/o15 | = Hour/BF(Lumber-Timber) |
| | × .01226 | = Hour/Cuyd (Dirt-Sand-Rock) |

| | | | |
|---|---|---|---|
| Hauling: 1-H Cart: | Concrete Road: Ton | × 1.04M + .28 | = Hour(Load-Haul-Dump) M = Mile |
| | Dirt Road: Ton | × 1.3M + .34 | = Hour(Load-Haul-Dump) |
| | Gravel Road: Ton | × 1.12M + .29 | = Hour(Load-Haul-Dump) |
| | Macadam Road: Ton | × 1.04M + .28 | = Hour(Load-Haul-Dump) |
| | Plowed Ground: Ton | × 3.9M + 1.02 | = Hour(Load-Haul-Dump) |
| | Poor Dirt Road: Ton | × 1.83M + .5 | = Hour(Load-Haul-Dump) |
| 2-H Wagon: | Concrete Road: Ton | × .56M + .09 | = Hour(Load-Haul-Dump) |
| | Dirt Road: Ton | × .685M + .14 | = Hour(Load-Haul-Dump) |
| | Gravel Road: Ton | × .6M + .1 | = Hour(Load-Haul-Dump) |
| | Macadam Road: Ton | × .56M + .09 | = Hour(Load-Haul-Dump) |
| | Plowed Ground: Ton | × 2.06M + .4 | = Hour(Load-Haul-Dump) |
| | Poor Dirt Road: Ton | × .96M + .18 | = Hour(Load-Haul-Dump) |
| 1-T Truck: | Concrete Road: Ton | × .148M + .08 | = Hour(Load-Haul-Dump) |
| | Dirt Road: Ton | × .225M + .125 | = Hour(Load-Haul-Dump) |
| | Gravel Road: Ton | × .17M + .09 | = Hour(Load-Haul-Dump) |
| | Macadam Road: Ton | × .16M + .08 | = Hour(Load-Haul-Dump) |
| | Plowed Ground: Ton | × .72M + .4 | = Hour(Load-Haul-Dump) |
| | Poor Dirt Road: Ton | × .28M + .1 | = Hour(Load-Haul-Dump) |
| 2-T Truck: | Concrete Road: Ton | × .072M + .04 | = Hour(Load-Haul-Dump) |

# CONVERSION FACTORS

| | | | |
|---|---|---|---|
| Hauling: 2-T Truck: Dirt Road: Ton | × .105M + .065 | = Hour(Load-Haul-Dump) |
| Gravel Road: Ton | × .08M + .05 | = Hour(Load-Haul-Dump) |
| Macadam Road: Ton | × .08M + .04 | = Hour(Load-Haul-Dump) |
| Plowed Ground: Ton | × .34M + .21 | = Hour(Load-Haul-Dump) |
| Poor Dirt Road: Ton | × .12M + .08 | = Hour(Load-Haul-Dump) |
| 5-T Truck: Concrete Road: Ton | × .026M + .02 | = Hour(Load-Haul-Dump) |
| Dirt Road: Ton | × .04M + .03 | = Hour(Load-Haul-Dump) |
| Gravel Road: Ton | × .03M + .0225 | = Hour(Load-Haul-Dump) |
| Macadam Road: Ton | × .03M + .02 | = Hour(Load-Haul-Dump) |
| Plowed Ground: Ton | × .13M + .1 | = Hour(Load-Haul-Dump) |
| Poor Dirt Road: Ton | × .048M + .036 | = Hour(Load-Haul-Dump) |
| Hay: Cubic Feet | × .001818 | = Ton Short |
| Rick: Feet "Over" Distance × Length × Width Ft | × .37 | = Ton Short (Hay) |
| Small Bale | × 66.666 | = Pound (30 Bales/Ton) |
| Standard Bale | × 120. | = Pound |
| Ton Short | × 550. | = Cubic Feet |
| Head: Elevation psi | + psi Press Hd | = Total Head psi |
| Feet Elevation | × .433 | = psi |
| Total at High Station | - Low Sta Hd | = Friction Drop |
| Head in Feet | × .43302 | = Pound/Square Inch |
| × Gallon/Minute | × .0003885 | = Horsepower US |
| Heater: Portable Electric: | = 1000-1300 | = Watt (Average Use) |
| Heat From: Electric Range: | = 7500. | = Btu/Hour |
| Gas Range: | = 32000. | = Btu/Hour |
| Motors, Lights: Watt | × 3.41 | = Btu/Hour |
| Occupants Idle: | = 400. | = Btu/Hour/Person |
| Window Unshaded: | = 100. | = Btu/Hour/Sqft Sash |
| Window w/Awning: | = 25. | = Btu/Hour/Sqft Sash |
| Window w/Blind or Venetians: | = 60. | = Btu/Hour/Sqft Sash |
| Occupants Working: | = 660. | = Btu/Hour/Person |
| Hectare (ha) | × 2.47104 | = Acre |
| | × 100. | = Are |
| | × 107638.7 | = Square Feet |
| Hectare (ha) | × 15499969. | = Square Inch |
| | × .01 | = Square Kilometer |
| | × 10000. | = Square Meter |
| | × .00386101 | = Square Mile |
| | × 395.366 | = Square Rod |
| | × 11959.85 | = Square Yard |
| Hecto | = 100. = $10^2$ | = One Hundred |
| Hectogram (hg) | × 10. | = Decagram |
| | × 1543.23488 | = Grain |
| | × 100. | = Gram |
| | × .001 | = Hundredweight |
| | × 3.527398 | = Ounce Avoir |
| | × 3.215 | = Ounce Troy |
| | × .22046 | = Pound Avoir |
| | × .26792 | = Pound Troy |
| Hectoliter (hl) | × 2.75 | = Bushel British |
| | × 2.8378 | = Bushel US Struck |
| | × 3.53159 | = Cubic Feet |
| | × .1 | = Cubic Meter |
| | × .1308 | = Cubic Yard |
| | × 26.42 | = Gallon Liquid US |
| | × 100. | = Liter |
| | × 11.321 | = Peck |
| Hectometer (hm) | × 328.089 | = Feet |
| | × 3937.079 | = Inch |
| | × 100. | = Meter |
| | × .06214 | = Mile Statute US |
| | × 109.361114 | = Yard |
| Hectopieze | × .9871 | = Bar |
| | × 29.53 | = Inch of Mercury |
| Hefner | × .90 | = Bougie Decimales |
| | × .864 | = Candle English |
| | × .855 | = Candle German |

| | | |
|---|---|---|
| Hefner | × .094 | = Carcel |
| | × .90 | = International Candle |
| | × .09 | = 10-cp Pentanes |
| Helium: (He): #2:4.003 AW: | | |
| Hemisphere: | × .5 | = Sphere |
| | × 4. | = Spherical Right Angle |
| | × 6.283 | = Steradian |
| Dome: Diameter Squared | × 1.5708 | = Curved Surface Area |
| Radius Squared | × 12.5664 | = Curved Surface Area |
| Radius Cubed | × 2.0943951 | = Volume |
| Radius Squared | × 9.42477 | = Area Total Surface |
| Henry (L) | × 1(9/o). | = Abhenry |
| | × 1(9/o). | = Electromagnetic Unit |
| | × .11/o111279 | = Electrostatic Unit |
| | × 1.0 | = Henry Absolute |
| | × .999505 | = Henry International |
| | × 1(6/o). | = Microhenry |
| | × 1000. | = Millihenry |
| | × 1.0 | = Self-Inductance Unit |
| | × .11/o111279 | = Stathenry |
| Henry Absolute | × 1.0 | = Henry |
| Henry International | × 1.000495 | = Henry Absolute |
| Heptagon: Short Radius Squared | × 3.37101 | = Area |
| Wide of Side Squared | × 3.633912 | = Area |
| Hexagon: Diagonal | × .5 | = Side |
| Long × Short Diameter | × 1.1547 | = Circumscribing Circumference |
| Short Diameter | × 1.1547 | = Diagonal |
| Short Diameter | × .577 | = Side |
| Short Diameter × Side | × 1.5 | = Area |
| Short Diameter Squared | × .866 | = Area |
| Short Radius Squared | × 3.46410 | = Area |
| Side | × 2. | = Diagonal |
| Width of Side Squared | × 2.598076 | = Area |
| Hexane: 30Hg60F: Gas: Boiling Point | = 615.39 | = Degree R |
| Critical Pressure | = 434. | = psi |
| Critical Temperature | = 454.6 | = Degree R |
| Cuft | × 4773. | = Btu |
| Cuft | × 45.35 | = Cuft Air to Burn |
| Density: Cuft | × .2271 | = Pound |
| Mean Coeff Expansion | = .0007 | = (0-50F) |
| | = .00078 | = (50-100F) |
| Melting Point | = 320. | = Degree R |
| Molecular Weight | = 86.11 | |
| Pound | × 20970. | = Btu |
| | × 138. | = Btu Heat Vaporization @ BP |
| Specific Gravity | = 3.459 (Air | = 1) |
| Specific Heat: Cuft | × .1006 | = Btu |
| Pound | × .406 | = Btu |
| Liquid: Degree API | = 81.6 | |
| Gallon | × 113746. | = Btu |
| | × 114900. | = Btu Heat Vaporization @ BP |
| | × 24.38 | = Cuft |
| | × 5.53 | = Pound |
| Pound | × 20583. | = Btu |
| | × 4.40 | = Cuft |
| Specific Gravity | = .664 | |
| Vapor Pressure | = 26.1 | = psi Gage 60F |
| | = 23.6 | = psi Gage 80F |
| | = 20. | = psi Gage 100F |
| | = 14.8 | = psi Gage 120F |
| Hogshead: Liquid US | × 2. | = Barrel (31.5) |
| | × .2384759 | = Cubic Meter |
| | × 63. | = Gallon Liquid US |
| | × 2016. | = Gill |
| | × 238.4759 | = Liter |
| | × 504. | = Pint |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Hogshead: Liquid US | × 252. | =Quart |
| Hoisting: Sin Hoist Angle w/Horiz × fpm | × Pound Load | × .4/o33 = HP |
| Hole: Digging: Man-Day | × 191. | = Cuft Dirt Loaded On Truck |
| | × 128. | = Cuft Dug: Dirt |
| Drilled or Dug: Cuyd of Sand × 4945.055 | = Inch Diam Squared × Feet Filled with Sand | |
| Holmium: (Ho): #67:164.94 AW: | | |
| Horsepower: To Hoist Vertical × 33000. | = Pound Load × Feet/Minute | |
| Number Cylinder × Inch Diam Squared | × .4 | = Gas Engine Horsepower |
| Horsepower Boiler | × 33475. | = Btu/Hour |
| | × 50 to 75 | = Cuft Natural Gas to Fire |
| | × 34.5 | = Lb Water/Hr (From-At 212F) |
| | × 165. | = Sqft Hot Water Radiation |
| | × 12 to 15 | = Sqft of Fire Surface |
| | × 100 to 139 | = Sqft of Steam Radiation |
| Horsepower Continental | × 75. | = Kilogram-Meter/Second |
| | × 1. | = Metric Horsepower/Second |
| | × 736. | = Watt |
| Horsepower Electric | × .707200 | = Btu/Second |
| | × 746(7/o). | = Erg/Second |
| | × 33013.2 | = Foot-Pound/Minute |
| | × 550.220 | = Foot-Pound/Second |
| | × 178.211 | = Gram-Calorie/Second |
| | × 1.00040 | = Horsepower US |
| | × 746. | = Joule/Second |
| | × .746 | = Kilowatt |
| | × 746. | = Watt |
| Horsepower-Hour Boiler | × 33479. | = Btu/Hour |
| | × .552 | = Cuft Water Required 212F |
| | × 4.6 | = Gallon Water Required 212F |
| | × 9.809 | = Kilowatt/Hour |
| | × 34.5 | = Pound Water Required 212F |
| Horsepower-Hour Metric | × 2509.83 | = Btu |
| | × 1952910. | = Foot-Pound |
| | × .98632 | = Horsepower-Hour US |
| | × 60. | = Horsepower-Minute Metric |
| | × 3600. | = Horsepower-Second Metric |
| | × 2647610. | = Joule |
| | × 632.467 | = Kilocalorie |
| | × 632.467 | = Kilogram-Calorie |
| | × 270. | = Kilogram-Kilometer |
| | × 270000. | = Kilogram-Meter |
| | × 75. | = Kilogram-Meter-Hour |
| | × .73545 | = Kilowatt-Hour |
| | × 26131. | = Liter-Atmosphere |
| | × .75 | = Poncelet-Hour |
| | × 1395.5 | = Pound Chu/Minute |
| | × 735.5 | = Watt-Hour |
| Horsepower-Hour/Minute | × 60. | = Horsepower US |
| Horsepower-Hour US | × 2544.987 | = Btu |
| | × 4.63 | = Cuft Manufactured Gas |
| | × 2.26 | = Cuft Natural Gas |
| | × 2684(10/o). | = Dyne-Centimeter |
| | × 2684(10/o). | = Erg |
| | × 1980000. | = Foot-Pound |
| | × 641303. | = Gram-Calorie |
| | × 2737(7/o). | = Gram-Centimeter |
| | × 1.01387 | = Horsepower-Hour Metric |
| | × 60. | = Horsepower-Minute US |
| | × 3600. | = Horsepower-Second US |
| | × 23760000. | = Inch-Pound |
| | × 2684530. | = Joule |
| | × 641.303 | = Kilocalorie |
| | × 641.303 | = Kilogram-Calorie |
| | × 273745. | = Kilogram-Meter |
| | × .745702 | = Kilowatt-Hour |
| | × .4/o85126 | = Kilowatt-Year |

| | | |
|---|---|---|
| Horsepower-Hour US | × 1415. | = Lb-Chu/Minute |
| | × 26493. | = Liter-Atmosphere |
| | × 1801(14/o). | = Mass Unit |
| | × 168(17/o). | = Mev |
| | × 375. | = Mile-Pound |
| | × .76049 | = Poncelet-Hour |
| | × .195 | = Pound Anthracite |
| | × 1415. | = Pound-Chu/Minute |
| | × .406 | = Pound Dry Wood |
| | × .133 | = Pound Fuel Oil |
| | × 2.94 | = Pound Water Evap. 212F |
| | × 10. | = Pound Water Raised 62-212F |
| | × 745.702 | = Watt-Hour |
| | × 2684530. | = Watt-Second |
| Horsepower Indicated | × Mech Eff | = Brake Horsepower |
| Horsepower Metric | × 41.83 | = Btu/Minute |
| | × .69718 | = Btu/Second |
| | × 1.0 | = Cheval Vapeur |
| | × 7354480000. | = Erg/Second |
| | × 32548.5 | = Foot-Pound/Minute |
| | × 542.47 | = Foot-Pound/Second |
| | × .9863 | = Horsepower US |
| | × 10.55 | = Kilogram-Calorie/Minute |
| | × .17569 | = Kilogram-Calorie/Second |
| | × 4500. | = Kilogram-Meter/Minute |
| | × 75. | = Kilogram-Meter/Second |
| | × .7355 | = Kilowatt |
| | × 1.0 | = Pferde Starke |
| | × .75 | = Poncelet |
| | × 23.255 | = Pound-Chu |
| | × 735.5 | = Watt |
| Horsepower-Minute Metric | × 41.83 | = Btu |
| | × 32548.5 | = Foot-Pound |
| | × 44133.3 | = Joule |
| | × 10.548 | = Kilogram-Calorie |
| | × 4500. | = Kilogram-Meter |
| | × 12.258 | = Watt-Hour |
| Horsepower/Minute US | × 42.41645 | = Btu |
| | × 33000. | = Foot-Pound |
| | × 44741. | = Joule |
| | × 10.695 | = Kilogram-Calorie |
| | × 4562.5 | = Kilogram-Meter |
| | × 12.428 | = Watt-Hour |
| Horsepower/Second Metric | × 542.475 | = Foot-Pound/Second |
| | × .98632 | = Horsepower US |
| | × 75. | = Kilogram-Meter/Second |
| | × .75 | = Poncelet |
| Horsepower/Second US | × .70694 | = Btu |
| | × 550. | = Foot-Pound |
| | × 481.11 | = Foot-Pound Austria |
| | × 484.56 | = Foot-Pound Prussia |
| | × 609.20 | = Foot-Pound Russia |
| | × 602.51 | = Foot-Pound Sweden |
| | × .17812 | = Kilogram-Calorie |
| | × 76.05 | = Kilogram-Meter |
| | × 746. | = Joule |
| | × .2071 | = Watt-Hour |
| Horsepower US | × 2544.90 | = Btu/Hour |
| | × 42.41502 | = Btu/Minute |
| | × .706917 | = Btu/Second |
| | × 7457020000. | = Erg/Second |
| | × 33000. | = Foot-Pound/Minute |
| | × 550. | = Foot-Pound/Second |
| | × 178.140 | = Gram-Calorie/Second |
| | × 1.01387 | = Horsepower Metric |
| | × 745.702 | = Joule/Second |

| | | |
|---|---|---|
| Horsepower US | × .178140 | = Kilocalorie/Second |
| | × 10.70 | = Kilogram-Calorie/Minute |
| | × .178140 | = Kilogram-Calorie/Second |
| | × 4562.4 | = Kilogram-Meter/Minute |
| | × 76.04 | = Kilogram-Meter/Second |
| | × .745702 | = Kilowatt |
| | × 375. | = Mile-Pound/Hour |
| | × 5. | = Number of Men (Equivalent) |
| | × .76040 | = Poncelet |
| | × 23.583 | = Pound-Chu |
| | × 1.0 | = Second-Foot (Falling 8.8') |
| | × 745.702 | = Watt |
| | × 745.578 | = Watt International |
| | × 746. | = Watt (Standard AIEE) |
| Hour | × .0417 | = Day |
| | × 60. | = Minute |
| | × .00137 | = Month (1/12 year) |
| | × 3600. | = Second |
| | × .0001142 | = Year |
| Hour × Ampere | × Volt | = Watt-Hour |
| × Ampere × Volt | × .001 | = Kilowatt-Hour |
| Hour/Gram | × 41.66667 | = Day/Kilogram |
| | × 1.29598 | = Day/Ounce Troy |
| | × 18.89969 | = Day/Pound Avoir |
| | × 28.34953 | = Hour/Ounce Avoir |
| | × 31.1035 | = Hour/Ounce Troy |
| | × 453.59243 | = Hour/Pound Avoir |
| | × 3.54823 | = Kilo-ounce Troy/Year |
| | × 3.6 | = Second/Milligram |
| | × 114.07955 | = Ton Metric/Year |
| | × 103.49124 | = Year/Ton Short Avoir |
| Hour/Ounce Apoth-Troy | × 1.33941 | = Day/Kilogram |
| | × .041667 | = Day/Ounce Troy |
| | × .032151 | = Hour/Gram |
| | × .11574 | = Second/Milligram |
| | × .11408 | = Year/Kilo-ounce Troy |
| | × 3.66774 | = Year/Ton Metric |
| Hour/Ounce Avoir | × 1.46975 | = Day/Kilogram |
| | × .66667 | = Day/Pound Avoir |
| | × .035274 | = Hour/Gram |
| | × 16. | = Hour/Pound Avoir |
| | × .12699 | = Second/Milligram |
| | × 4.02404 | = Year/Ton Metric |
| | × 3.65051 | = Year/Ton Short Avoir |
| Hour/Pound Avoir | × .091860 | = Day/Kilogram |
| | × .041667 | = Day/Pound Avoir |
| | × .0022046 | = Hour/Gram |
| | × .0625 | = Hour/Ounce Avoir |
| | × .0079367 | = Second/Milligram |
| | × .25150 | = Year/Ton Metric |
| | × .22816 | = Year/Ton Short Avoir |
| House Moisture: Cooking | = 1 | = Pints Water/Day |
| Drying Clothes | = 26 | = Pints Water/Load |
| Family Breathing | = 48 | = Pints Water/Day |
| Shower Baths | = 5 | = Pints Water/Day |
| Washing Clothes | = 5 | = Pints Water/Load |
| Human Skin: Dry: Resistance to Electric Current | | = 100. to 600,000 Ohms |
| Wet: Resistance to Electric Current | | = 1000 Ohms |
| Hundredweight Long | × .05 | = Gross Ton |
| | × 50.802352 | = Kilogram |
| | × 112. | = Pound Avoir |
| | × 4. | = Quarter Avoir |
| | × 8. | = Stone |
| | × .05 | = Ton Long |
| Hundredweight Short | × 1.0 | = Cental |
| | × 1.0 | = Centner |

| | | |
|---|---|---|
| Hundredweight Short | × 1.8 | = Cubic Feet |
| | × 11.2 | = Gallon British |
| | × 45.359243 | = Kilogram |
| | × 100. | = Pound |
| | × 4. | = Quarter |
| | × .05 | = Ton Net |
| | × .05 | = Ton Short |
| Hydrogen: (H): #1:1.0080 AW: Val. + 1: | | |
| 32F-30" Hg: Cubic Foot | × .00559 | = Pound |
| Pound | × 178.931 | = Cubic Feet |
| | × .4/o8989 | = Lb Water (Wgt Comparison) |
| 60F-30" Hg: | = .06952 | = Specific Gravity (Air = 1) |
| Cubic Foot | × 325.3 | = Btu Gross Combustion Heat |
| | × 2.391 | = Cuft Air for Combustion |
| | × .00532 | = Pound |
| Cuft Mixed Air-Gas | × 95.92 | = Btu Gross Combustion Heat |
| Pound | × 61140. | = Btu Gross Combustion Heat |
| | × 187.87 | = Cubic Feet |
| | × 34.357 | = Pound Air for Combustion |
| Flame Temperature: | = 3920. | = Degree F Maximum |
| Sulphide: 60F-30" Hg: Cuft | × .09114 | = Pound |
| Pound | × 10.97 | = Cubic Feet |
| Hydroxide: OH: | = -1 | = Valence |

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| | | |
|---|---|---|
| Ice: Before Crushing | = 6-30% | = Will Compress |
| Crushing | = 100 to 1000 | = Pound/Square Inch |
| Cubic Expansion Coefficient | | = .0001125 |
| Cubic Foot | × 57.47 | = Pound 32F |
| Expansion Coefficient | | = .4/o52 |
| Expansion Force | = 30000. | = Pound/Sqft (minimum) |
| Heat of Fusion | = 79.8 | = Calorie |
| Latent Heat of Fusion | = 143.6 | = Btu/Pound |
| Melting Point | = 491.66 | = Degree F Absolute |
| Melting to Water @ 32F | = 143.6 | = Heat-Units Absorbed |
| Point | = 0.00 | = Degree Centigrade |
| | = 32.0 | = Degree Fahrenheit |
| | = 273.6 | = Degree Kelvin |
| Pound | × .0174 | = Cubic Foot 32F |
| | × 30.0672 | = Cubic Inch |
| Specific Gravity | = .922 | (Water at 62F = 1) |
| Specific Heat (Water = 1) | = .504 | = Btu/Pound/°F |
| Tensile Strength | = 142 to 223 | = Pound/Square Inch |
| Volume | × .9212 | = Water Volume |
| Icosahedron: Side Cubed | × 2.1817 | = Volume |
| Side Squared | × 8.6603 | = Total Area |
| Illumination: Design and Prolonged Reading | = 50 to 100 | = Footcandle (30" Above Floor) |
| Drafting Work: | = 40. | = Foot Candle |
| Sqft | × 8. | = Watts |
| Office and Fine Mfg. Products | = 25 to 50 | = Footcandle (30" Above Floor) |
| Office Work: | = 15. | = Foot-Candle |
| Sqft | × 5. | = Watt |
| Outdoor Daytime | = 5000. | = Footcandle (Average) |
| School and Rough Factory Work | = 10 to 20 | = Footcandle (30" above Floor) |
| Imaginary Unit | = -1 | = i |
| | = -1 | = $i^2$ |
| | = -i | = $i^3$ |
| | = +1 | = $i^4$ |
| | = +i | = $i^5$ |
| Impedance (Z) | = Sq Root of (Ohm Squared + Reactance Squared) | |
| Impedance (ohm) | × Ampere | = Volt |
| Inch | × 254000508. | = Angstrom |
| | × .0001157 | = Cable Length |
| | × 2.54000508 | = Centimeter |
| | × .000833 | = Chain Engineer |
| | × .0012626 | = Chain Gunter |
| | × .254 | = Decemeter |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Inch | × .01388 | = Fathom |
| | × .08333 | = Foot US |
| | × .0254000508 | = Meter |
| | × 100000. | = Micro-Inch |
| | × 25400.0508 | = Micron |
| | × .4/o1371 | = Mile Nautical US |
| | × .4/o15783 | = Mile Statute US |
| | × 25.4000508 | = Millimeter |
| | × 25400050.8 | = Millimicron |
| | × 1000. | = Mil |
| | × .4/o254 | = Kilometer |
| | × .8/o1998 | = Part of Earth Polar Axis |
| | × .005050 | = Rod |
| | × .1111 | = Span |
| | × .02777 | = Yard |
| Inch Circular | × 6.54163 | = Circular Centimeter |
| | × .00694444 | = Circular Foot |
| | × 1(6/o). | = Circular Mil |
| | × 645.163 | = Circular Millimeter |
| | × .2618 | = Foot Circumference |
| | × 3.1416 | = Inch Circumference |
| | × 5.06709 | = Square Centimeter |
| | × .00545415 | = Square Foot |
| | × .785398 | = Square Inch |
| | × 785398. | = Square Mil |
| | × 506.709 | = Square Millimeter |
| Inch Deep | × 2323300. | = Cubic Feet/Square Mile |
| | × .0737 | = Second-Foot/Year |
| Inch, Edward II, AD1324 | × 3. | = Barley Corns (End to End) |
| Inch in 64th | × .39688 | = Millimeter |
| Inch: Mercury | × .03342 | = Atmosphere |
| | × 929.6 | = Feet Height Air 62F |
| | × 1.1308 | = Feet Height Water 62F |
| | × 245. | = Feet/Second |
| | × 1.0 | = Inch Height Mercury |
| | × 13.61 | = Inch Height Water |
| | × 7.85 | = Ounce/Square Inch |
| | × 70.73 | = Pound/Square Foot |
| | × .49116 | = Pound/Square Inch |
| Inch Mercury (60°C) | × 3.37685 | = Kilopascal |
| Inch, Miners | × 1.0 | = Gallon/Second |
| US Reclamation Service | × 1.0 | = Cubic Foot/Second |
| Varies from | = .02 to .025 | = Cubic Foot/Second |
| Inch-Pound | × .000107 | = Btu |
| | × .0833 | = Foot-Pound |
| | × .7/o421 | = Horsepower-Hour |
| | × .7/o3137 | = Kilowatt-Hour |
| Inch Water (60°F) | × .24884 | = Kilopascal |
| Inch Water (4°F) | × .249082 | = Kilopascal |
| Indium: (In) #49:114.76 AW: | | |
| Infra-Red | = 7000. | = Angstrom |
| | = 27.5 | = Micro-Inch |
| Insulation: 12" Masonry Wall | = .36 | = Btu/Hr/Sqft/°F |
| House: Sqft of Floor Area | × 55. | = Btu Lost/Hr to Outdoor (Coal or Gas) |
| Sqft of Floor Area | × 40. | = Btu Lost/Hr to Outdoor (Elec Heat) |
| Interest Equations | = i + p | = Amount (a) |
| | = prt/p | = Amount (a) |
| | = prt | = Interest (i) |
| | = i/rt | = Principal (p) |
| | = a−p/pt | = Rate (r) |
| | = i/pt | = Rate (r) |
| | = i/pr | = Time (t) |
| Interference Band: Monochromatic Light | = 11.6 | = Micro-Inch |
| International Candle | × 1.0 | = Candlepower |
| International Kilo-Calorie | × 1.0 | = IT Calorie (see) |
| Steam Table Calorie | × 1.0 | = IT Calorie (see) |

# CONVERSION FACTORS

| | | |
|---|---|---|
| International Unit $B_1$ | × 3.0 | = Microgram |
| | × .003 | = Milligram |
| | × 2. | = Sherman Unit |
| International Unit C | × .05 | = Milligram |
| | × 1.0 | = USPX1 Unit |
| | × .1 | = Sherman Unit |
| Invar: Linear Expansion: Inch | × .4 | = Micro-Inch/Degree F |
| Iodide: I: | = -1 | = Valence |
| Iodine: (I): #53:126.92 AW: | | |
| Iridium: (Ir): #77:193.1 AW: .0323 SpHt: 22.42 gm/cc: | | |
| Iron, Automatic Hand: | = 1000 | = Watt (avg use) |
| Iron: (Fe): #26:55.85 AW: .1075 Sp Ht: 7.87 gm/cc: MP1535C:BP2998C: .19 gm-cal/Sec/Sqcm/°C/cm: | | |
| Cast: Spg 7.218: Cubic Foot | × 450. | = Pound |
| | × .2604 | = Pound |
| Specific Heat | = .12 | = Btu/Pound/°F |
| Wrought: Linear Expansion: Cubic Foot | × 480. | = Pound Spg 7.7 |
| Cubic Inch | × .2778 | = Pound |
| Inch | × 6.5 | = Micro-Inch/Degree F |
| Ironer (Home): | = 1650. | = Watt (Avg Use) |
| Isobutane: 30Hg60F: Gas: Boiling Point | = 470.59 | = Degree R |
| Critical Pressure | = 530. | = psi |
| Critical Temperature | = 732.89 | = Degree R |
| Cuft | × 3268. | = Btu |
| | × 31.03 | = Cuft Air to Burn |
| Density: Cuft | × .1531 | = Pound |
| Mean Coeff Expansion | = .00113 | = (0-50F) |
| | = .00128 | = (50-100F) |
| Melting Point | = 714.99 | = Degree R |
| Pound | × 21288. | = Btu |
| | × 158. | = Btu Heat Vaporization @ BP |
| Specific Gravity | = 2.006 | (Air = 1) |
| Specific Heat: Cuft | × .0731 | = Btu |
| Pound | × .406 | = Btu |
| Liquid: Degree API | = 119.8 | |
| Gallon | × 96685. | = Btu |
| | × 99300. | = Btu Heat Vaporization @ BP |
| | × 30.70 | = Cuft |
| | × 4.69 | = Pound |
| Pound | × 20579. | = Btu |
| | × 6.53 | = Cuft |
| Specific Gravity | = .563 | |
| Vapor Pressure | = 24. | = psi Gage 60F |
| | = 39.2 | = psi Gage 80F |
| | = 59. | = psi Gage 100F |
| | = 83.3 | = psi Gage 120F |
| Isopentane: 30Hg60F: Gas: Boiling Point | = 641.89 | = Degree R |
| Critical Pressure | = 482. | = psi |
| Critical Temperature | = 829.69 | = Degree R |
| Cuft | × 4012. | = Btu |
| | × 38.19 | = Cuft Air to Burn |
| Density: Cuft | × .1901 | = Pound |
| Melting Point | = 202.59 | = Degree R |
| Pound | × 21058. | = Btu |
| | × 146. | = Btu Heat Vaporization @ BP |
| Specific Gravity | = 2.491 | (Air = 1) |
| Specific Heat: Pound | × .413 | = Btu |
| Liquid: Degree API | = 94.9 | |
| Gallon | × 108700. | = Btu Heat Vaporization @ BP |
| | × 27.41 | = Cuft |
| | × 5.20 | = Pound |
| Pound | × 5.26 | = Cuft |
| Specific Gravity | = .625 | |
| Vapor Pressure | = 11.6 | = psi Gage 60F |
| | = 1.1 | = psi Gage 80F |
| | = 5.8 | = psi Gage 100F |
| | = 13.9 | = psi Gage 120F |

| | | |
|---|---|---|
| Isosceles Triangle: Two Sides of Equal Length and Two Angles Equal. | | |
| IT Calorie | × 1.0 | = Calorie IT (see) |
| | × 1.00037 | = Kilogram-Calorie (Mean) |

## J

| | | |
|---|---|---|
| Jackhammer: 8—10" Reinf Concrete: Hour | × 50. | = Square Feet Broken Out |
| Joule | × .0009477 | = Btu |
| | × .00023888 | = Calorie Large |
| | × 1(7/o). | = Dyne-Centimeter |
| | × 1.0 | = Energy Unit |
| | × 1(7/o). | = Erg |
| | × .737557 | = Foot-Pound |
| | × .23888 | = Gram-Calorie |
| | × 10197.16 | = Gram-Centimeter |
| | × .6/o3777 | = Horsepower-Hour Metric |
| | × .6/o3725 | = Horsepower-Hour US |
| | × .4/o22350 | = Horsepower-Minute US |
| | × .00136 | = Horsepower-Second Metric |
| | × .00134102 | = Horsepower-Second US |
| | × .999833 | = Joule International |
| | × .0002388 | = Kilocalorie |
| | × .00023888 | = Kilogram-Calorie |
| | × .101972 | = Kilogram-Meter |
| | × .001 | = Kilojoule |
| | × .6/o2777 | = Kilowatt-Hour |
| | × .001 | = Kilowatt-Second |
| | × .009869 | = Liter-Atmosphere |
| | × 1.0 | = Newton-Meter |
| | × .6/o2833 | = Poncelet-Hour |
| | × .000527 | = Pound-Chu |
| | × 1.0 | = Thermal Ohm |
| | × .0002777 | = Watt-Hour |
| | × 1. | = Watt-Second |
| Joule/Centimeter | × 1(7/o). | = Dyne |
| | × 10190. | = Gram |
| | × 100. | = Joule/Meter |
| | × 10.20 | = Kilogram-Force |
| | × 100. | = Newton |
| | × 22.48 | = Pound-Force |
| | × 723.3 | = Poundal |
| Joule International | × 1.000165 | = Joule Absolute |
| Joule/Meter | × 100000. | = Dyne |
| | × 101.9 | = Gram-Force |
| | × .01 | = Joule/Centimeter |
| | × .1019 | = Kilogram-Force |
| | × 1.0 | = Newton |
| | × .2248 | = Pound-Force |
| | × 7.233 | = Poundal |
| Joule/Second | × 1(7/o). | = Dyne-Centimeter/Second |
| | × 1.0 | = Watt |
| Joule/Sec/Sqft/In/°F Diff | × .001176 | = gm-cal/Sec/Sqcm/cm/°C Diff |
| Juchart | × 36. | = Are |
| | × .88957 | = Acre (US) |

## K

| | | |
|---|---|---|
| Kanna | × .69135 | = Gallon Liquid US |
| | × 2.617 | = Liter |
| Kansas City Heating Load | = 5300. | = Degree-Day |
| kB | × 1000. | = Btu |
| Kelvin Degree: | - 273.16 | = Centigrade Degree |
| (Minus 273.16 | × 1.8) 32 | = Fahrenheit Degree |
| Minus 273.16 | × .8 | = Reaumur Degree |
| Ken | × 5.97 | = Foot US |
| Kerosene: Barrel | × 385. | = Pound |
| Cubic Foot | × 51. | = Pound |
| Gallon | × 136000. | = Btu (Heat Value) |
| | × 6.8 | = Pound |
| Pound (Heat Value) | × 18000. | = Btu (Maximum 22100) |

| | | |
|---|---|---|
| Kerosene: Pound (Heat Value) | × 18000. | = Btu (Maximum 22100) |
| Kilderkin | × .081830 | = Cubic Meter |
| | × 18. | = Gallon British |
| Kilo (k) | = 1000. = $10^3$ | = One Thousand |
| Kilo Btu (kB) | × 1000. | = Btu |
| Kilocalorie (kc) | × 3.968 | = Btu |
| | × 1000. | = Calorie |
| | × 3088.4 | = Foot-Pound |
| | × 99366. | = Foot-Poundal |
| | × 1.0 | = Gram-Calorie |
| | × .001581 | = Horsepower-Hour Metric |
| | × .001560 | = Horsepower-Hour US |
| | × 4187.3 | = Joule |
| | × 1.0 | = Kilogram-Calorie |
| | × 426.99 | = Kilogram-Meter |
| | × .00116279 | = Kilowatt-Hour |
| | × 41.3 | = Liter-Atmosphere |
| Kilocalorie/Second | × 426.9 | = Kilogram-Meter/Second |
| Kilocalorie/Sec/Sqcm | × 318322. | = Btu/Day/Sqft |
| | × 13263. | = Btu/Hour/Sqft |
| | × 3600. | = Gram-Calorie/Hr/Sqcm |
| | × 4.183 | = Watt/Sqcm |
| Kilocalorie/Sec/Sqcm/cm/°C | × 69624. | = Btu/Day/Sqft/Inch/°F |
| | × 2901. | = Btu/Hr/Sqft/Inch/°F |
| | × 3600. | = Gram-Calorie/Hr/Sqcm/cm/°C |
| | × 4.1833 | = Watt/Sqcm/cm/°C |
| Kilodyne | × 1000. | = Dyne |
| | × 1. | = Gram (Approximately) |
| Kilofeet | × 1000. | = Feet |
| Kilogauss | × 1.0 | = Kilomaxwell/Sq Centimeter |
| Kilogram | × 15432.35639 | = Grain |
| | × 1000. | = Gram Water @ 4C |
| | × 10. | = Hectogram |
| | × .019 | = Hundredweight Long |
| | × 1.0 | = Liter (Water) |
| | × 35.273957 | = Ounce Avoir |
| | × 32.150742 | = Ounce Apoth-Troy |
| | × 1.7857 | = Pound Austrian |
| | × 2.204622341 | = Pound Avoir |
| | × 2.6792285 | = Pound Apoth-Troy |
| | × 2.4419 | = Pound Russian |
| | × 2.3525 | = Pound Swedish |
| | × .0009842 | = Ton Long US |
| | × .001 | = Ton Metric |
| | × .0011023 | = Ton Short US |
| | × 2. | = Zollpfund |
| Kilogram-Calorie | × 3.96832 | = Btu |
| | × 418605(5/o). | = Dyne-Centimeter |
| | × 418605(5/o). | = Erg |
| | × 3087.46 | = Foot-Pound |
| | × 1000. | = Gram-Calorie |
| | × 42685800. | = Gram-Centimeter |
| | × .001581 | = Horsepower-Hour Metric |
| | × .00155932 | = Horsepower-Hour US |
| | × 5.61 | = Horsepower-Second US |
| | × 4186.05 | = Joule |
| | × 1.0 | = Kilocalorie |
| | × 426.858 | = Kilogram-Meter |
| | × .00116279 | = Kilowatt-Hour |
| | × 4.18605 | = Kilowatt-Second |
| | × 1. | = Large Calorie |
| | × 2.2044 | = lb-chu |
| | × 41.3 | = Liter-Atmosphere |
| | × 999.76 | = Mean Calorie |
| | × 5.688 | = Metric Horsepower-Second |
| | × 9.9976 | = Ostwald Calorie |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Kilogram-Calorie | × .001186 | = Poncelet-Hour |
| | × 2.2044 | = Pound-Calorie |
| | × 2.2044 | = Pound Centigrade Heat Unit |
| | × 2.2044 | = Pound Chu |
| | × 1000. | = Small Calorie |
| | × 1.16279 | = Watt-Hour |
| | × 4186.05 | = Watt-Second |
| Kilogram-Calorie/Cubic Meter | × .11237 | = Btu/Cubic Foot |
| Kilogram-Calorie/Hour/Sqm/cm/°C Diff | × .002778 | = gm-cal/Sec/Sqcm/cm/°C Diff |
| Kilogram-Calorie/Kilogram | × 1.8 | = Btu/Pound |
| Kilogram-Calorie/Liter | × 112.37 | = Btu/Cubic Foot |
| Kilogram-Calorie/Minute | × 3.968 | = Btu/Minute |
| | × 3086. | = Foot-Pound/Minute |
| | × 51.43 | = Foot-Pound/Second |
| | × .0948 | = Horsepower Metric |
| | × .0935595 | = Horsepower US |
| | × .0697 | = Kilowatt |
| | × 69.7674 | = Watt |
| Kilogram-Calorie/Second | × 3.96832 | = Btu/Second |
| | × 3087.46 | = Foot-Pound/Second |
| | × 1000. | = Gram-Calorie/Second |
| | × 5.69200 | = Horsepower Metric |
| | × 5.61357 | = Horsepower US |
| | × 426.9 | = Kilogram-Meter/Second |
| | × 4.18605 | = Kilowatt |
| | × 4.269 | = Poncelet |
| | × 4186.05 | = Watt |
| Kilogram-Calorie/Square Meter | × .3687 | = Btu/Sqft |
| Kilogram-Calorie/Sq Meter/°C Difference | × .2048 | = Btu/Sqft/°F Difference |
| Kilogram/Cheval Vapeur | × 2.235 | = Pound/Horsepower US |
| Kilogram/Cubic Meter | × .001 | = Gram/Cubic Centimeter |
| | × .1 | = Kilogram/Hectoliter |
| | × .07769 | = Pound/Bushel US Struck |
| | × .062428 | = Pound/Cubic Foot |
| | × .4/o3613 | = Pound/Cubic Inch |
| | × 1.68556 | = Pound/Cubic Yard |
| | × .009711 | = Pound/Gallon Dry US |
| | × .008345 | = Pound/Gallon Liquid US |
| | × .9/o3405 | = Pound/Mil-Foot |
| | × .008428 | = Ton Short/Cubic Yard |
| Kilogram/Day | × 41.6666 | = Gram/Hour |
| | × 11.74281 | = Kilo-ounce Troy/Year |
| | × 11.57407 | = Milligram/Second |
| | × 1.46975 | = Ounce Avoir/Hour |
| | × 32.15072 | = Ounce Troy/Day |
| | × 1.33941 | = Ounce Troy/Hour |
| | × 2.20462 | = Pound Avoir/Day |
| | × .091860 | = Pound Avoir/Hour |
| | × .36524 | = Ton Metric/Day |
| | × .40261 | = Ton Short Avoir/Year |
| Kilogram-Force | × 980665. | = Dyne |
| | × 1000. | = Gram-Force |
| | × .0980665 | = Joule/Centimeter |
| | × 9.80665 | = Joule/Meter |
| | × 1.0 | = Kilogram Weight |
| | × 9.80665 | = Meter/Second/Second |
| | × 9.80665 | = Newton |
| | × 70.931 | = Poundal |
| | × 2.20462 | = Pound-Force |
| Kilogram-Force-Second/Square Meter | × 9809.691 | = Centipoise |
| | × 98.09 | = Dyne-Second/Sq Centimeter |
| | × 980969. | = Dyne-Second/Sq Meter |
| | × 633. | = Dyne-Second/Sq Inch |
| | × 9125. | = Dyne-Second/Sq Foot |
| | × 98.09 | = Gram-Mass/Centimeter-Second |
| | × 5900. | = Gram-Mass/Centimeter-Minute |

| | | |
|---|---|---|
| Kilogram-Force-Second/Square Meter | × 353000. | = Gram-Mass/Centimeter-Hour |
| | × .098096 | = Kilogram-Mass/Centimeter-Second |
| | × 9.8096 | = Kilogram-Mass/Meter-Second |
| | × 590. | = Kilogram-Mass/Meter-Minute |
| | × 35300. | = Kilogram-Mass/Meter-Hour |
| | × 98.0969 | = Poise |
| | × 2.21 | = Pound-Force-Second/Sq Meter |
| | × .00142 | = Pound-Force-Second/Sq Inch |
| | × .197 | = Pound-Force-Second/Sq Foot |
| | × .4/o238 | = Pound-Force-Minute/Sq Inch |
| | × .00332 | = Pound-Force-Minute/Sq Foot |
| | × .00216 | = Pound-Mass/Centimeter-Second |
| | × .55 | = Pound-Mass/Inch-Second |
| | × 6.6 | = Pound-Mass/Foot-Second |
| | × .129 | = Pound-Mass/Centimeter-Minute |
| | × 32.9 | = Pound-Mass/Inch-Minute |
| | × 395. | = Pound-Mass/Foot-Minute |
| | × .769 | = Pound-Mass/Centimeter-Hour |
| | × 1980. | = Pound-Mass/Inch-Hour |
| | × 23700. | = Pound-Mass/Foot-Hour |
| | × .00216 | = Poundal-Second/Sq Centimeter |
| | × .55 | = Poundal-Second/Sq Inch |
| | × 6.6 | = Poundal-Second/Sq Foot |
| | × .129 | = Poundal-Minutes/Sq Centimeter |
| | × 32.9 | = Poundal-Minute/Sq Inch |
| | × 395. | = Poundal-Minute/Sq Foot |
| | × .769 | = Poundal-Hour/Sq Centimeter |
| | × 1980. | = Poundal-Hour/Sq Inch |
| | × 23700. | = Poundal-Hour/Sq Foot |
| Kilogram/Hectoliter | × .01 | = Gram/Cubic Centimeter |
| | × 10. | = Kilogram/Cubic Meter |
| | × .77689 | = Pound/Bushel US Struck |
| | × .62428 | = Pound/Cubic Foot |
| | × .0003613 | = Pound/Cubic Inch |
| | × 16.8557 | = Pound/Cubic Yard |
| | × .09711 | = Pound/Gallon Dry US |
| | × .08345 | = Pound/Gallon Liquid US |
| Kilogram/Hour | × 2.204622 | = Pound/Hour |
| Kilogram/HP-Hour × Reaction Voltage | = .7465 | × Gram/Ampere-Hour |
| Kilogram/HP-Year × Reaction Voltage | = 6543.8 | × Gram/Ampere-Hour |
| Kilogram/Kilometer (kg/km) | × .391983 | = Grain/Inch |
| | × .01 | = Gram/Centimeter |
| | × .001 | = Kilogram/Meter |
| | × .00067197 | = Pound/Foot |
| | × .67197 | = Pound/Kilofoot |
| | × 3.548 | = Pound/Mile |
| | × .00201591 | = Pound/Yard |
| Kilogram-Kilometer (kg-km) | × 9.297 | = Btu |
| | × 2.3427 | = Calorie Large |
| | × 980665(5/o) | = Dyne-Centimeter |
| | × 980665(5/o) | = Erg |
| | × 7233. | = Foot-Pound |
| | × 2342.70 | = Gram-Calorie |
| | × 1(8/o). | = Gram-Centimeter |
| | × .003704 | = Horsepower-Hour Metric |
| | × .00365303 | = Horsepower-Hour US |
| | × 9806.65 | = Joule |
| | × 2.3427 | = Kilogram-Calorie |
| | × 1000. | = Kilogram-Meter |
| | × .00272407 | = Kilowatt-Hour |
| | × 1.36989 | = Mile-Pound |
| | × .002778 | = Poncelet-Hour |
| | × 2.72407 | = Watt-Hour |
| Kilogram-Kilometer/Minute | × .22222 | = Horsepower Metric |
| | × .21936 | = Horsepower US |
| | × .16344 | = Kilowatt |

| | | |
|---|---|---|
| Kilogram-Kilometer/Minute | × 163.44 | = Watt |
| | × 163.44 | = Watt |
| Kilogram-Mass | × °C | = Kilogram-Calorie |
| | × .10197 | = Kilogram-Slug |
| | × 2.204 | = Pound-Mass |
| | × .068521 | = Slug |
| Kilogram-Mass/Centimeter-Second | × 1(5/o). | = Centipoise |
| | × 1000. | = Dyne-Second/Sq Centimeter |
| | × 1(7/o). | = Dyne-Second/Sq Meter |
| | × 6450. | = Dyne-Second/Sq Inch |
| | × 929030. | = Dyne-Second/Sq Foot |
| | × 1000. | = Gram-Mass/Centimeter-Second |
| | × 60000. | = Gram-Mass/Centimeter-Minute |
| | × 36(5/o). | = Gram-Mass/Centimeter-Hour |
| | × 100. | = Kilogram-Mass/Meter-Second |
| | × 6000. | = Kilogram-Mass/Meter-Minute |
| | × 360000. | = Kilogram-Mass/Meter-Hour |
| | × 10.194 | = Kilogram-Force-Second/Sq Meter |
| | × 1000 | = Poise |
| | × 22.47 | = Pound-Force-Second/Sq Meter |
| | × .0145 | = Pound-Force-Second/Sq Inch |
| | × 2.09 | = Pound-Force-Second/Sq Foot |
| | × .000242 | = Pound-Force-Minute/Sq Inch |
| | × .0348 | = Pound-Force-Minute/Sq Foot |
| | × .02204 | = Pound-Mass/Centimeter-Second |
| | × 5.6 | = Pound-Mass/Inch-Second |
| | × 67.2043 | = Pound-Mass/Foot-Second |
| | × 1.322 | = Pound-Mass/Centimeter-Minute |
| | × 336. | = Pound-Mass/Inch-Minute |
| | × 4032. | = Pound-Mass/Foot-Minute |
| | × 7.837 | = Pound-Mass/Centimeter-Hour |
| | × 20160. | = Pound-Mass/Inch-Hour |
| | × 241935.48 | = Pound-Mass/Foot-Hour |
| | × .02204 | = Poundal-Second/Sq Centimeter |
| | × 5.6 | = Poundal-Second/Sq Inch |
| | × 67.2043 | = Poundal-Second/Sq Foot |
| | × 1.322 | = Poundal-Minute/Sq Centimeter |
| | × 336. | = Poundal-Minute/Sq Inch |
| | × 4032. | = Poundal-Minute/Sq Foot |
| | × 7.837 | = Poundal-Hour/Sq Centimeter |
| | × 20160. | = Poundal-Hour/Sq Inch |
| | × 241935.48 | = Poundal-Hour/Sq Foot |
| Kilogram-Mass/Meter-Hour | × .278 | = Centipoise |
| | × .00278 | = Dyne-Second/Sq Centimeter |
| | × 27.8 | = Dyne-Second/Sq Meter |
| | × .0179 | = Dyne-Second/Sq Inch |
| | × 2.58 | = Dyne-Second/Sq Foot |
| | × .00278 | = Gram-Mass/Centimeter-Second |
| | × .168 | = Gram-Mass/Centimeter-Minute |
| | × 10. | = Gram-Mass/Centimeter-Hour |
| | × .5/o278 | = Kilogram-Mass/Centimeter-Second |
| | × .3/o278 | = Kilogram-Mass/Meter-Second |
| | × .0166 | = Kilogram-Mass/Meter-Minute |
| | × .4/o283 | = Kilogram-Force-Second/Sq Meter |
| | × .00278 | = Poise |
| | × .4/o625 | = Pound-Force-Second/Sq Meter |
| | × .7/o403 | = Pound-Force-Second/Sq Inch |
| | × .5/o58 | = Pound-Force-Second/Sq Foot |
| | × .9/o672 | = Pound-Force-Minute/Sq Inch |
| | × .7/o967 | = Pound-Force-Minute/Sq Foot |
| | × .7/o614 | = Pound-Mass/Centimeter-Second |
| | × .4/o155 | = Pound-Mass/Inch-Second |
| | × .000186 | = Pound-Mass/Foot-Second |
| | × .5/o367 | = Pound-Mass/Centimeter-Minute |
| | × .3/o934 | = Pound-Mass/Inch-Minute |
| | × .0112 | = Pound-Mass/Foot-Minute |

| | | |
|---|---|---|
| Kiloram-Mass/Meter-Hour | × .4/o217 | = Pound-Mass/Centimeter-Hour |
| | × .056 | = Pound-Mass/Inch-Hour |
| | × .671 | = Pound-Mass/Foot-Hour |
| | × .7/o614 | = Poundal-Second/Sq Centimeter |
| | × .4/o155 | = Poundal-Second/Sq Inch |
| | × .000186 | = Poundal-Second/Sq Foot |
| | × .5/o367 | = Poundal-Minute/Sq Centimeter |
| | × .3/o934 | = Poundal-Minute/Sq Inch |
| | × .0112 | = Poundal-Minute/Sq Foot |
| | × .4/o217 | = Poundal-Hour/Sq Centimeter |
| | × .056 | = Poundal-Hour/Sq Inch |
| | × .671 | = Poundal-Hour/Sq Foot |
| Kilogram-Mass/Meter-Minute | × 16.6 | = Centipoise |
| | × .166 | = Dyne-Second/Sq Centimeter |
| | × 1660. | = Dyne-Second/Sq Meter |
| | × 1.07 | = Dyne-Second/Sq Inch |
| | × 155. | = Dyne-Second/Sq Foot |
| | × .166 | = Gram-Mass/Centimeter-Second |
| | × 10. | = Gram-Mass/Centimeter-Minute |
| | × 600. | = Gram-Mass/Centimeter-Hour |
| | × .000166 | = Kilogram-Mass/Centimeter-Second |
| | × .0166 | = Kilogram-Mass/Meter-Second |
| | × 60. | = Kilogram-Mass/Meter-Hour |
| | × .0017 | = Kilogram-Force-Second/Sq Meter |
| | × .166 | = Poise |
| | × .00374 | = Pound-Force-Second/Sq Meter |
| | × .7/o242 | = Pound-Force-Second/Sq Inch |
| | × .000348 | = Pound-Force-Second/Sq Foot |
| | × .7/o404 | = Pound-Force-Minute/Sq Inch |
| | × .5/o58 | = Pound-Force-Minute/Sq Foot |
| | × .5/o368 | = Pound-Mass/Centimeter-Second |
| | × .3/o933 | = Pound-Mass/Inch-Second |
| | × .0112 | = Pound-Mass/Foot-Second |
| | × .3/o22 | = Pound-Mass/Centimeter-Minute |
| | × .056 | = Pound-Mass/Inch-Minute |
| | × .67 | = Pound-Mass/Foot-Minute |
| | × .0013 | = Pound-Mass/Centimeter-Hour |
| | × 3.36 | = Pound-Mass/Inch-Hour |
| | × 40.4 | = Pound-Mass/Foot-Hour |
| | × .5/o368 | = Poundal-Second/Sq Centimeter |
| | × .3/o933 | = Poundal-Second/Sq Inch |
| | × .0112 | = Poundal-Second/Sq Foot |
| | × .3/o22 | = Poundal-Minute/Sq Centimeter |
| | × .056 | = Poundal-Minute/Sq Inch |
| | × .67 | = Poundal-Minute/Sq Foot |
| | × .0013 | = Poundal-Hour/Sq Centimeter |
| | × 3.36 | = Poundal-Hour/Sq Inch |
| | × 40.4 | = Poundal-Hour/Sq Foot |
| Kilogram-Mass/Meter-Second | × 1000. | = Centipoise |
| | × 10. | = Dyne-Second/Sq Centimeter |
| | × 1(5/o). | = Dyne-Second/Sq Meter |
| | × 64.5 | = Dyne-Second/Sq Inch |
| | × 9290.3 | = Dyne-Second/Sq Foot |
| | × 10. | = Gram-Mass/Centimeter-Second |
| | × 600. | = Gram-Mass/Centimeter-Minute |
| | × 36000. | = Gram-Mass/Centimeter-Hour |
| | × .01 | = Kilogram-Mass/Centimeter-Second |
| | × 60. | = Kilogram-Mass/Meter-Minute |
| | × 3600. | = Kilogram-Mass/Meter-Hour |
| | × .10194 | = Kilogram-Force-Second/Sq Meter |
| | × 10. | = Poise |
| | × .2247 | = Pound-Force-Second/Sq Meter |
| | × .3/o145 | = Pound-Force-Second/Sq Inch |
| | × .0209 | = Pound-Force-Second/Sq Foot |
| | × .5/o242 | = Pound-Force-Minute/Sq Inch |
| | × .3/o348 | = Pound-Force-Minute/Sq Foot |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Kilogram-Mass/Meter-Second | × .3/o2204 | = Pound-Mass/Centimeter-Second |
| | × .056 | = Pound-Mass/Inch-Second |
| | × .672043 | = Pound-Mass/Foot-Second |
| | × .01322 | = Pound-Mass/Centimeter-Minute |
| | × 3.36 | = Pound-Mass/Inch-Minute |
| | × 40.32 | = Pound-Mass/Foot-Minute |
| | × .07837 | = Pound-Mass/Centimeter-Hour |
| | × 201.6 | = Pound-Mass/Inch-Hour |
| | × 2419.35 | = Pound-Mass/Foot-Hour |
| | × .3/o2204 | = Poundal-Second/Sq Centimeter |
| | × .056 | = Poundal-Second/Sq Inch |
| | × .672043 | = Poundal-Second/Sq Foot |
| | × .01322 | = Poundal-Minute/Sq Centimeter |
| | × 3.36 | = Poundal-Minute/Sq Inch |
| | × 40.32 | = Poundal-Minute/Sq Foot |
| | × .07837 | = Poundal-Hour/Sq Centimeter |
| | × 201.6 | = Poundal-Hour/Sq Inch |
| | × 2419.35 | = Poundal-Hour/Sq Foot |
| Kilogram-Meter | × .009295 | = Btu |
| | × .00234270 | = Calorie Large |
| | × 98066500. | = Dyne-Centimeter |
| | × 98066500. | = Erg |
| | × 7.233 | = Foot-Pound |
| | × 2.34270 | = Gram-Calorie |
| | × 1(5/o). | = Gram-Centimeter |
| | × .5/o37037 | = Horsepower Metric-Hour |
| | × .013333 | = Horsepower Metric-Second |
| | × .5/o365303 | = Horsepower US-Hour |
| | × .01315 | = Horsepower US-Second |
| | × 9.80665 | = Joule |
| | × .00234270 | = Kilocalorie |
| | × .00234270 | = Kilogram-Calorie |
| | × .5/o272407 | = Kilowatt-Hour |
| | × .009807 | = Kilowatt-Second |
| | × .09678 | = Liter-Atmosphere |
| | × 9.80665 | = Newton-Meter |
| | × .5/o2778 | = Poncelet-Hour |
| | × .00516426 | = Pound-Chu |
| | × 7.233 | = Pound-Foot |
| | × .00272407 | = Watt-Hour |
| | × 9.80665 | = Watt-Second |
| Kilogram/Meter | × 391.983 | = Grain/Inch |
| | × 10. | = Gram/Centimeter |
| | × 391.983 | = Gram/Inch |
| | × 1000. | = Kilogram/Kilometer |
| | × .671972 | = Pound/Foot |
| | × .0560 | = Pound/Inch |
| | × 3548. | = Pound/Mile |
| | × 2.01591 | = Pound/Yard |
| | × 1.58393 | = Ton Long/Mile |
| | × 1. | = Ton Metric/Kilometer |
| | × 1.77400 | = Ton/Short Mile |
| Kilogram-Meter/Minute | × 7.233 | = Foot-Pound/Minute |
| | × 2.22222 | = Horsepower Metric |
| | × .00021936 | = Horsepower US |
| | × .0001634 | = Kilowatt |
| | × .16344 | = Watt |
| Kilogram-Meter/Second (kg-m/s) | × .0092957 | = Btu/Second |
| | × 433.980 | = Foot-Pound/Minute |
| | × 7.233 | = Foot-Pound/Second |
| | × 2.3427 | = Gram-Calorie/Second |
| | × .013333 | = Horsepower Metric |
| | × .01315 | = Horsepower US |
| | × .00234270 | = Kilogram-Calorie/Second |
| | × .009806 | = Kilowatt |
| | × .01 | = Poncelet |

| | | |
|---|---|---|
| Kilogram-Meter Squared | × 9.80665 | = Watt |
| | × 1(7/o). | = Gram-Centimeter Squared |
| | × 3416.9 | = Pound-Inch Squared |
| | × 23.7285 | = Pound-Foot Squared |
| | × .737507 | = Slug-Foot Squared |
| Kilogram-Slug | × 9.80665 | = Kilogram-Mass |
| | × 21.620 | = Pound-Mass |
| | × .67196 | = Slug |
| Kilogram-Square Centimeter | × .341716 | = Pound-Square Inch |
| Kilogram/Square Centimeter | × .9678 | = Atmosphere |
| | × 32.84 | = Feet Water @ 0C |
| | × 28.96 | = Inch Mercury @ 0C |
| | × 394.05 | = Inch Water @ 15C |
| | × 10000. | = Kilogram/Square Meter |
| | × .9807 | = Megabar |
| | × .9807 | = Megadyne/Sq Centimeter |
| | × .7356 | = Meter Hg @ 0C |
| | × 10.01 | = Meter Water @ 15C |
| | × 1.0 | = Metric Atmosphere |
| | × 2048.16 | = Pound/Square Foot |
| | × 14.2234 | = Pound/Square Inch |
| | × 1.024 | = Ton Short/Square Foot |
| Kilogram/Square Meter | × .4/o967841 | = Atmosphere 76cm:32F |
| | × 98.07 | = Bar |
| | × .007356 | = Centimeter Mercury 32F |
| | × 98.0665 | = Dyne/Square Centimeter |
| | × 10. | = Gram/Square Centimeter |
| | × .0028959 | = Inch Mercury @ 32F |
| | × .03937 | = Inch Water @ 4C |
| | × 9.807 | = Newton/Sq Meter |
| | × .2048155 | = Pound/Square Foot |
| | × .00142233 | = Pound/Square Inch |
| | × .3/o914362 | = Ton Long/Square Foot |
| | × .0001024 | = Ton Short/Square Foot |
| Kilogram/Square Millimeter | × 1. | = Abvolt/Second |
| | × 1000. | = Maxwell |
| | × 1422.34 | = Pound/Square Inch |
| | × .634973 | = Ton Long/Square Inch |
| | × .4/o1 | = Volt-Second |
| Kilojoule | × 1000. | = Joule |
| Kiloline | × 1000. | = Line |
| | × 1000. | = Maxwell |
| | × .4/o1 | = Weber |
| Kiloliter (Kl) | × 28.375 | = Bushel US Struck |
| | × 35.31 | = Cubic Feet |
| | × 61027.0515 | = Cubic Inch |
| | × 1. | = Cubic Meter |
| | × 264.178 | = Gallon Liquid US |
| | × 10. | = Hectoliter |
| | × 1000. | = Liter |
| | × 3.437 | = Quarter |
| | × 1. | = Stere |
| Kilolumen | × 1000. | = Lumen |
| Kilomaxwell/Square Centimeter | × 1.0 | = Kilogauss |
| Kilometer (km) | × 1(5/o). | = Centimeter |
| | × 49.7096 | = Chain Gunter |
| | × 3280.83 | = Feet US |
| | × 10. | = Hectometer |
| | × 39370. | = Inch US |
| | × 1000. | = Meter |
| | × .539593 | = Mile Nautical US |
| | × .1328 | = Mile Prussian |
| | × .6213699 | = Mile Statute US |
| | × 1(9/o). | = Micron |
| | × 1(6/o). | = Millimeter |
| | × 1(12/o). | = Millimicron |

| | | |
|---|---|---|
| Kilometer (km) | × 198.838 | = Rod |
| | × .9374 | = Verst |
| | × 1093.61114 | = Yard |
| Kilometer/Hour | × 27.78 | = Centimeter/Second |
| | × 54.68 | = Feet US/Minute |
| | × .91134 | = Feet US/Second |
| | × .53959 | = Knot US |
| | × 16.67 | = Meter/Minute |
| | × .2778 | = Meter/Second |
| | × .62137 | = Mile Statute US/Hour |
| | × .27777 | = Mile Statute US/Second |
| Kilometer/Hour/Second | × 27.78 | = Centimeter/Sec/Sec |
| | × .91134 | = Feet US/Second/Second |
| | × .2778 | = Meter/Sec/Sec |
| | × .6213699 | = Mile Statute US/Hour/Sec |
| Kilo-Ounce Apoth-Troy/Year | × 3.54823 | = Gram/Hour |
| | × .085157 | = Kilogram/Day |
| | × .98563 | = Milligram/Second |
| | × 2.73791 | = Ounce Troy/Day |
| | × .11408 | = Ounce Troy/Hour |
| | × .031104 | = Ton Metric/Year |
| Kilopascal | × .010197 | = Atmosphere (Kg f/Sq Cm) |
| | × .009869 | = Atmosphere (760 Torr) |
| | × .01 | = Bar |
| | × 10.000 | = Dynes/Sq Centimeter |
| | × 1(8/o). | = Dynes/Sq Meter |
| | × .296134 | = Inch Mercury (60°F) |
| | × 4.014742 | = Inch Water (4°C) |
| | × 4.018647 | = Inch Water (60°F) |
| | × 7.500615 | = Millimeter Mercury (0°C) |
| | × 1000. | = Newton/Sq Meter |
| | × .145038 | = Pounds (f)/Sq Inch |
| | × .044208 | = Pounds (f)/Sq Inch/Ft |
| | × 4.420751 | = Pounds (f)/Sq Inch/100 Ft |
| | × 20.885434 | = Pounds (f)/Sq Ft |
| Kilopound | × 1.0 | = Kip |
| | × 1000. | = Pound |
| Kilopound/Square Inch (kpsi) | × .70307 | = Kilogram/Square Millimeter |
| | × .001 | = Pound/Square Inch |
| Kilovolt (kv) | × 1000. | = Volt |
| Kilovolt-Ampere (kva) | × Power Factor | = Kilowatt |
| Kilovolt-Ampere: Ac: Single Phase: | × 1000. | = Ampere × Volt |
| 2 Ph-4 Wire | × 500. | = Ampere × Volt |
| 3 Phase | × 578. | = Ampere × Volt |
| Kilovolt/Centimeter | × 1(11/o). | = Abvolt/Centimeter |
| | × 1(11/o). | = Microvolt/Centimeter |
| | × 1(8/o). | = Millivolt/Meter |
| | × 3.335 | = Statvolt/Centimeter |
| | × 1000. | = Volt/Centimeter |
| | × 2540.005 | = Volt/Inch |
| | × 2.540005 | = Volt/Mil |
| | × 1(5/o). | = Volt/Meter |
| Kilowatt (kw) | × 3412.874 | = Btu/Hour (Develops) |
| | × 2730. | = Btu/Hour (Effective) |
| | × 56.8 | = Btu/Minute |
| | × .9478 | = Btu/Second |
| | × 859.975 | = Calorie Large/Hour |
| | × 1(10/o). | = Dyne-Centimeter/Second |
| | × 1(10/o). | = Erg/Second |
| | × 2655199. | = Foot-Pound/Hour |
| | × 44253.33 | = Foot-Pound/Minute |
| | × 737.555 | = Foot-Pound/Second |
| | × 238.88 | = Gram-Calorie/Second |
| | × 1.35972 | = Horsepower Metric |
| | × 1.34102 | = Horsepower US |
| | × 1000. | = Joule/Second |

| | | |
|---|---|---|
| Kilowatt (kw) | × 859.975 | = Kilogram-Calorie/Hour |
| | × 14.33 | = Kilogram-Calorie/Minute |
| | × .23888 | = Kilogram-Calorie/Second |
| | × 367123. | = Kilogram-Meter/Hour |
| | × 101.97 | = Kilogram-Meter/Second |
| | × 502.917 | = Mile-Pound/Hour |
| | × 1.01979 | = Poncelet |
| | × 1000. | = Watt |
| Kilowatt Current Squared (+) Kilovar Current Squared | | = Total Current Squared |
| Kilowatt DC | × 1000. | = Ampere × Volt |
| | × .00134 | = Horsepower × % Efficiency |
| Kilowatt-Hour (kwhr) | × 3412.874 | = Btu |
| | × 860. | = Calorie IT |
| | × 6.2 | = Cuft Manufactured Gas |
| | × 3.03 | = Cuft Natural Gas |
| | × 36(12/o). | = Dyne-Centimeter |
| | × 1.0 | = Energy Unit |
| | × 36(12/o). | = Erg |
| | × 2655199. | = Foot-Pound |
| | × 859975. | = Gram-Calorie |
| | × 367123(5/o). | = Gram-Centimeter |
| | × 1.35972 | = Horsepower-Hour Metric |
| | × 1.34102 | = Horsepower-Hour US |
| | × 4827.67 | = Horsepower US-Second |
| | × 31862388. | = Inch-Pound |
| | × 36(5/o). | = Joule |
| | × 859.9 | = Kilo-Calorie |
| | × 859.975 | = Kilogram-Calorie |
| | × 367.123 | = Kilogram-Kilometer |
| | × 367123. | = Kilogram-Meter |
| | × 60. | = Kilowatt-Minute |
| | × 35528. | = Liter-Atmosphere |
| | × 241(14/o). | = Mass Unit |
| | × 225(17/o). | = Mev |
| | × 502.917 | = Mile-Pound |
| | × 1.01979 | = Poncelet-Hour |
| | × .261 | = Pound Anthracite |
| | × 1897.2 | = Pound Chu/Minute |
| | × .545 | = Pound Dry Wood |
| | × .1786 | = Pound Fuel Oil |
| | × 3.518 | = Pound Water Evap 212F |
| | × 22.76 | = Pound Water Raised 62-212F |
| | × 1000. | = Watt-Hour |
| | × 36(5/o). | = Watt-Second |
| Kilowatt-Hour (Heat Generated) | × .4/o435 | = Gram U235 Fissioned |
| Kilowatt-Hour/Hr/Sqft/In/°F Diff | × 1.176 | = gm-cal/Sec/Sqcm/cm/°C Diff |
| Kilowatt-Hour/Hr/Sqm/cm/°C Diff | × .02389 | = gm-cal/Sec/Sqcm/cm/°C Diff |
| Kilowatt-Hour/Second | × 3600. | = Kilowatt |
| Kilowatt-Minute | × 56.92 | = Btu |
| | × 44256.7 | = Foot-Pound |
| | × 60000. | = Joule |
| | × 14.3416 | = Kilogram-Calorie |
| | × 6118.72 | = Kilogram-Meter |
| | × 16.667 | = Watt-Hour |
| Kilowatt-Second | × 737.6 | = Foot-Pound |
| | × 239.02 | = Gram-Calorie |
| | × 1000. | = Joule |
| | × .23902 | = Kilogram-Calorie |
| | × 101.976 | = Kilogram-Meter |
| | × .27777 | = Watt-Hour |
| Kin | × 1.32 | = Pound Avoir |
| Kine | × 1. | = Square Centimeter/Second |
| Kinematic Viscosity Sqft/Sec | × Density Pound - Mass | = Abs Viscosity Pound - Force-Sec/Sqft |
| | × Density Pound - Force | = Abs Viscosity Pound - Force-Sec/Sqft |
| Kip | × 1.0 | = Kilopound |
| | × 1000. | = Pound |

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|---|---|---|
| Klafter | × 2.0740 | = Yard |
| Knot British Admiralty | × 6080. | = Feet US |
| Knot US | × 51.479 | = Centimeter/Second |
| | × 6080.20 | = Feet US/Hour |
| | × 101.337 | = Feet/Minute |
| | × 1.68894 | = Feet/Second |
| | × 1.8532486 | = Kilometer/Hour |
| | × 30.887 | = Meter/Minute |
| | × .51479 | = Meter/Second US |
| | × 1.15155 | = Mile/Hour |
| | × 1.0 | = Mile Nautical/Hour |
| | × .0003198 | = Mile/Second |
| Krypton: (kr): #36:83.7 Aw: | | |
| Kvar | × 1.0 | = Reactive Kilovolt-Ampere |
| Kwan | × 8.2673 | = Pound Avoir |
| Lambert | × 1.0 | = Brightness Unit |
| | × .3183 | = Candle/Square Centimeter |
| | × 2.0538 | = Candle/Square Inch |
| | × 3183. | = Candle/Square Meter |
| | × 929. | = Foot-Lambert |
| | × 1.0 | = Lumen/Sq Centimeter |
| | × .3183 | = Lumen/Sqcm/Steradian |
| | × 1000. | = Milliambert |
| Lanthanum: (La): #57.138.92 AW: | | |
| Laths: 1×32" Wood: Each 1000 Laths | × 4.8 | = Lather-Hr (12" Nail Center) |
| | × 4.5 | = Lather-Hr(16" Nail Center) |
| | × 9. | = Pound Nail (12" Nail Center) |
| | × 7. | = Pound Nail (16" Nail Center) |
| | × 38.5 | = Square Yard Covered |
| Number Bundles | × .48 | = Lather-Hr(12" Nail Center) |
| | × .45 | = Lather-Hr(16" Nail Center) |
| Square Yard Area | × .125 | = Lather-Hr(12" Nail Center) |
| | × .117 | = Lather-Hr(16" Nail Center) |
| | × 26. | = Number Laths |
| 48" Wood: Each 1000 Laths | × 5.3 | = Lather-Hr(12" Nail Center) |
| | × 5. | = Lather-Hr(16" Nail Center) |
| | × 14. | = Pound Nail (12" Nail Center) |
| | × 10. | = Pound Nail (16" Nail Center) |
| Number Bundles | × .53 | = Lather-Hr(12" Nail Center) |
| | × .5 | = Lather-Hr(16" Nail Center) |
| Sqyd Area × (15/inch to weather) | + 5 | = Number Laths |
| Laths: Wood Bundle | × 100. | = Number Laths |
| Laying Cinder or Concrete Block: Number | × .4/o8 | = Man-Hour/Foot Wheeled |
| | × .006 | = Man-Hour (Load or Unload) |
| | × .008 | = Man-Hour/100' Wheeled |
| | × .038 | = Mason or Helper-Hours |
| | × .021 | = Mortarman-Hour |
| Lea: Pound | × 120. | = Yard (Cotton) |
| | × 300. | = Yard (Silk) |
| Lead: (Pb): #82:207.21 AW: Val. + 2: SpHt. .0297: 11.342 gm/cc: MP327.4C:BP1744C | | |
| Cubic Foot | × 709.6 | = Pound (Spg 11.38) 68F |
| Linear Expansion: Inch | × 15.7 | = Micro-Inch/Degree F |
| League, Land | × 24. | = Furlong |
| | × 4.8280 | = Kilometer |
| | × 3. | = Mile Statute US |
| League, Marine | × 5.56 | = Kilometer |
| | × 3.0 | = Mile Nautical US |
| | × 3.45 | = Mile Statute US |
| Leather: Specific Weight | = .035 | = Pound/Cuin |
| Lever: Fulcrum to Force Distance × Force | = Weight | × Fulcrum to Wgt Distance |
| Li | × 1890. | = Foot US |
| | × .01260 | = Inch US |
| Libra Argentina | × 1.0128 | = Pound Avoir |
| Central America - Chile | × 1.014 | = Pound Avoir |
| Cuba | × 1.014 | = Pound Avoir |

| | | |
|---|---|---|
| Libra Mexico | × 1.01467 | = Pound Avoir |
| Libra Peru-Venezuela | × 1.0143 | = Pound Avoir |
| Light Bulb: 25 Watt @ 2 Feet | = 5. | = Footcandle |
| 50 Watt @ 2 Feet | = 13. | = Footcandle |
| 60 Watt @ 2 Feet | = 17. | = Footcandle |
| 100 Watt @ 2 Feet | = 32. | = Footcandle |
| 25 Watt @ .21 Amp | = 10.4 | = Lumen/Watt |
| 60 Watt @ .50 Amp | = 13.9 | = Lumen/Watt |
| 100 Watt @ .83 Amp | = 16.3 | = Lumen/Watt |
| 150 Watt @ 1.25 Amp | = 17.2 | = Lumen/Watt |
| 200 Watt @ 1.67 Amp | = 18.3 | = Lumen/Watt |
| 300 Watt @ 2.50 Amp | = 19.6 | = Lumen/Watt |
| Light: Centimeter/Second Squared | × Gram Mass | = Erg |
| Lighting: Efficiency | | = Lumen/Watt |
| Heat Comes From | = 3 to 5 | = Watt/Square Foot |
| Lightning Flash | = 20. | = Coulomb (Quantity) |
| | = 1(17/o). | = Erg(Energy) |
| Light Velocity in Vacuum: Second | × 299795. | = Kilometer |
| | × 186284. | = Mile Statute US |
| Light Year | × 95(11/o). | = Kilometer |
| | × 59(11/o). | = Mile Statute US |
| Lignite: Pound | × 8408. | = Btu |
| Lime: Barrel | × 320. | = Pound |
| Bushel | × 75. | = Pound |
| Hydrated Cubic Foot | × 20 to 45 | = Pound |
| Quick: Cubic Foot | × 95. | = Pound Spg 1.5 |
| Quick: Ground-Shaken Cubic Foot | × 64. | = Pound |
| Limestone: Building Stone: Cubic Foot | × 160. | = Pound |
| Ton | × 12.5 | = Cubic Feet |
| Crushed-1/2": Cubic Yard | × 2360. | = Pound |
| Ton | × .85 | = Cubic Yard |
| Loose: Cubic Foot | × 96. | = Pound Spg 2.6 |
| Line | × .001 | = Kiloline |
| | × .10/o333585 | = Magnetic Flux Density Unit |
| | × 1. | = Maxwell |
| | × .99954 | = Maxwell Int |
| | × .7/o1 | = Volt-Second |
| | × .7/o1 | = Weber |
| Line/Square Centimeter | × 1. | = Gauss |
| | × 1.0 | = Gauss Absolute |
| | × .99966 | = Gauss International |
| | × 1.0 | = Electromagnetic Unit |
| | × .9/o33 | = Electrostatic Unit |
| | × 6.452 | = Line/Square Inch |
| | × .10/o333585 | = Magnetic Flux Density Unit |
| | × 1.0 | = Maxwell/Sqcm |
| | × 6.45163 | = Maxwell/Sqin |
| | × .10/o333585 | = Statweber |
| | × .7/o1 | = Volt-Second/Sqcm |
| | × .7/o1 | = Weber/Square Centimeter |
| | × .7/o645163 | = Weber/Sqin |
| | × .0001 | = Weber/Square Meter |
| Line/Square Inch | × .1550 | = Gauss |
| | × .1550 | = Line/Square Centimeter |
| | × .7/o1 | = Volt-Second/Square Inch |
| | × .8/o155 | = Weber/Square Centimeter |
| | × .7/o1 | = Weber/Square Inch |
| | × .4/o155 | = Weber/Square Meter |
| Link | × 20.11684 | = Centimeter |
| | × .66 | = Feet |
| | × 7.92 | = Inch |
| | × .22 | = Yard |
| Liter | × .02838 | = Bushel US Struck |
| | × 100. | = Centiliter |
| | × 1000.028 | = Cubic Centimeter |
| | × 1.000028 | = Cubic Decimeter |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Liter | × .035316 | = Cubic Feet |
| | × 61.0270515 | = Cubic Inch |
| | × .001000028 | = Cubic Meter |
| | × .001308 | = Cubic Yard |
| | × .1 | = Decaliter |
| | × 10. | = Deciliter |
| | × 270.518 | = Dram Fluid |
| | × .22702 | = Gallon Dry US |
| | × .219975 | = Gallon Liquid British |
| | × .264178 | = Gallon Liquid US |
| | × 8.45369 | = Gill |
| | × .01 | = Hectoliter |
| | × 1. | = Kilogram Water 3.98C |
| | × 1000. | = Milliliter |
| | × 16231.1 | = Minim |
| | × 33.8147 | = Ounce Fluid US Apoth |
| | ×1.7598 | = Pint Dry US |
| | × 2.11342 | = Pint Liquid US |
| | × 2.202 | = Pound Water at 62F |
| | × .9081 | = Quart Dry US |
| | × 1.136 | = Quart Liquid British |
| | × 1.05671 | = Quart Liquid US |
| | × .001 | = Ton Metric |
| Liter-Atmosphere | × .09604 | = Btu |
| | × 74.74 | = Foot-Pound |
| | × 24.218 | = Gram-Calorie |
| | × .4/o3827 | = Horsepower-Hour Metric |
| | × .4/o3775 | = Horsepower-Hour US |
| | × 101.33 | = Joule |
| | × .024218 | = Kilocalorie |
| | × .024218 | = Kilogram-Calorie |
| | × 10.333 | = Kilogram-Meter |
| | × .4/o2815 | = Kilowatt-Hour |
| Liter/Cubic Meter | × .00748 | = Gallon Liquid US/Cuft |
| Liter/Second | × 2.1186 | = Cubic Feet/Minute |
| | × 15.85068 | = Gallon Liq US/Minute |
| Lithium: (Li) | = +1 | = Valence |
| Lithium: (Li): #3:6.940 AW: SpHt.79: .534 gm/cc | | |
| Lithium Nucleus | + Proton | = 2 Helium Nuclei |
| Little Rock Ark: Heating Load | = 2860. | = Degree-Day |
| Livre | × 1.102 | = Pound (Belgium) |
| Logarithm: Common | × 2.3025851 | = Naperian Logarithm |
| Computing: a × b | = log ab | = log a + log b |
| a/b | = log a/b | = log a − log b |
| a to nth Power | = Log $a^n$ | = n log a |
| nth Root of a | = log $a^{1/n}$ | = (1/n) log a |
| Naperian | × .43429 | = Common Logarithm |
| Naperian Base | = 2.71828182 | |
| Naperian Log | × Common Log | = 9.6377843 |
| Modulus | = .43429 | |
| Lumber: Fir: Ends Supported: In Wide × In Thick Squared × 2200 | | = In Long × Lb Uniform Safe Load |
| Fir-Pine Timber: Board-Foot | × 3.5 | = Pound |
| Oak: Ends Supported: In Wide × In Thick Squared × 3800 | | = In Long × Lb Uniform Safe Load |
| Oak Timber: Board-Foot | × 5.5 | = Pound |
| Standard Dressed: | = 1300. | = psi Maximum Bending Stress |
| Width Inch × Thick Inch × Ft Long | × .08333 | = Board-Feet |
| 1" and 2": Board-Feet | × 2.5 | = Pound Weight |
| Lumen | × .07958 | = Candlepower |
| | × .07958 | = Candlepower Mean Spherical |
| | × 1.0 | = Light Flux Unit |
| | × .00147 | = Watt |
| Lumen/Square Centimeter | × 1.0 | = Lambert |
| | × 1.0 | = Phot |
| Lumen/Square Foot | × 1. | = Foot-Candle |
| | × 1.0 | = Light Flux Density Unit |
| | × 1.076 | = Millilambert |

| | | |
|---|---|---|
| Lumen/Square Meter | × 1.0 | = Lux |
| Lumen/Sqcm/Steradian | × 1.0 | = Candle/Square Centimeter |
| | × 6.4516 | = Candle/Square Inch |
| | × 3.1416 | = Lambert |
| | × 3141.6 | = Millilambert |
| Lutecium: (Lu): #71:174.99 AW: | | |
| Lux | × .0929 | = Footcandle |
| | × 1.0 | = Lumen/Square Meter |
| | × 1.0 | = Meter-Candle |
| | × .1 | = Milliphot |
| | × .0001 | = Phot |



| | | |
|---|---|---|
| Maas | × 1.5 | = Liter |
| Mach Number | × Sound Velocity (fps) | = fps (Object Speed) |
| Mac Value: Mist and Dust: Cd and Hg | = 0.1 | = Milligram/Cubic Meter |
| Chromic Acid | = 0.1 | = Milligram/Cubic Meter |
| Co-$CC1_4$-$NH_4$ | = 100. | = Part/Million |
| Gasoline | = 1000. | = Part/Million |
| +10% Silica | = 1(6/o). | = Particles/Cubic Foot |
| -10% Silica | = 1(8/o). | = Particles/Cubic Foot |
| Toluol | = 150. | = Part/Million |
| Turpentine | = 200. | = Part/Million |
| Magnesium: (Mg): #12:24.32 AW: .25 SpHt: Val. + 2:1.74 gm/cc | | |
| | × 4.12 | = Calcium Carbonate |
| Magnesium Bicarbonate | × .684 | = Calcium Carbonate |
| | = 73.17 | = Equivalent Weight |
| | = 146.34 | = Molecular Weight |
| + Calcium Hydroxide | = Calcium Carbonate | + Magnesium Hydroxide |
| + Sodium Zeolite | = Sodium Bicarbonate | + Magnesium Zeolite |
| Magnesium Carbonate | × 1.19 | = Calcium Carbonate |
| | = 42.16 | = Equivalent Weight |
| | = 84.32 | = Molecular Weight |
| | × 1.26 | = Sodium Carbonate |
| Magnesium Chloride | × 1.05 | = Calcium Carbonate |
| + Sodium Zeolite | = Sodium Chloride | + Magnesium Zeolite |
| Magnesium: Cubic Foot | × 109. | = Pound Spg 1.75 |
| Magnesium Hydroxide | × 1.72 | = Calcium Carbonate |
| | = 29.17 | = Equivalent Weight |
| | = 58.34 | = Molecular Weight |
| Magnesium: Linear Expansion: Inch | × 14.3 | = Micro-Inch/Degree F |
| Magnesium Nitrate | × .674 | = Calcium Carbonate |
| Magnesium Oxide | × 2.48 | = Calcium Carbonate |
| Magnesium Sulphate | × .831 | = Calcium Carbonate |
| | = 60.17 | = Equivalent Weight |
| | = 120.38 | = Molecular Weight |
| | × 1.18 | = Sodium Sulphate |
| + Sodium Zeolite | = Sodium Sulfate | + Magnesium Zeolite |
| Magnesium Zeolite + Sodium Chloride | = Sodium Zeolite | + Magnesium Chloride |
| Manganese: (Mn): #25:54.93 AW: .11 SpHt: Val. +2: 7.44 gm/cc | | |
| Cubic Foot | × 500. | = Pound |
| Linear Expansion: Inch | × 12.8 | = Micro-Inch/Degree F |
| Manganese Dioxide + Hydrochloric Acid | = Manganese Chloride | + Water + Chlorine |
| Manometer: Water: Sq Root Height Inch | × 4000. | = Cuft/Min (Air Flow in Pipe) |
| Manzana | × 1.742 | = Acre |
| Marble: Building Stone: Cubic Foot | × 168. | = Pound |
| Ton | × 11.9 | = Cubic Feet |
| Crushed: Cubic Foot | × 90. | = Pound Spg 2.6 |
| Masonry: Linear Expansion | = 2.5 to 5.0 | = Parts/Million/°F |
| Mass: | × Acceleration | = Force |
| Of a Body | × 32.17 | = Weight |
| Unit | × .00149 | = Erg |
| | × .9/o110 | = Foot-Pound |
| | × .23/o16604 | = Gram |
| | × .10/o356 | = Gram-Calorie |
| | × .16/o556 | = Horsepower-Hour |
| | × .16/o415 | = Kilowatt-Hour |

| | | |
|---|---|---|
| Mass: Unit | × .0931 | = Mev |
| Mass | × Light Velocity Squared | = Energy (Einstein) |
| Maximum Allowable Concentration | = 1.0 | = Mac Value |
| Maxwell | × .001 | = Kiloline |
| | × 1. | = Line |
| | × .10/o333585 | = Magnetic Flux Unit |
| | × .99954 | = Maxwell International |
| | × .7/o1 | = Volt-Second |
| | × .7/o1 | = Weber |
| Maxwell International | × 1.00046 | = Maxwell |
| Maxwell/Square Centimeter | × 1. | = Gauss |
| | × 1.0 | = Gauss Absolute |
| | × .99966 | = Gauss International |
| | × 1.0 | = Electromagnetic Unit |
| | × .9/o33 | = Electrostatic Unit |
| | × 1.0 | = Line/Sqcm |
| | × 6.45163 | = Line/Sqin |
| | × .10/o333585 | = Magnetic Flux Density Unit |
| | × 6.452 | = Maxwell/Square Inch |
| | = .10/o333585 | = Statweber |
| | × .7/o1 | = Volt-Second/Sqcm |
| | × .7/o1 | = Weber/Sqcm |
| | × .7/o645163 | = Weber/Sqin |
| | = .0001 | = Weber/Sqm |
| mB | × 1000000. | = Btu |
| Mb | × 1000. | = Btu |
| Mbh | × 1000. | = Btu/Hour |
| Mean Calorie | × .003969 | = Btu |
| | × 1.001 | = Calorie IT |
| | × 99.366 | = Foot-Poundal |
| | × 3.0884 | = Foot-Pound-Force |
| | × 1.00024 | = Gram-Calorie |
| | × 4.1873 | = Joule |
| | × .00100024 | = Kilogram-Calorie |
| | × .426858 | = Kilogram-Force-Meter |
| | × .5/o116279 | = Kilowatt-Hour |
| | × .0099991 | = Ostwald Calorie |
| | × .00220499 | = Pound-Calorie |
| Mean Proportional = Sq Root of (First Number × Second Number) | | |
| Mean Spherical Candlepower | × 12.57 | = Lumen |
| Mechanical Efficiency | × HP Indicated | = Brake Horsepower |
| Mechanics | = 3. | = Dimension Systems |
| Mechanics = Length-Time + Velocity or Speed - Mass-Force-Pressure-Momentum-Energy-Power-Torque-Gravity Constant | | |
| Mega | = 1(6/o). = $10^6$ | = One Million |
| Megabar | × .9869 | = Atmosphere |
| | × 1.0197 | = Atmosphere Metric |
| | × 1(6/o). | = Bar |
| | × 33.49 | = Feet Water 59F |
| | × 29.53 | = Inch Mercury, 32F |
| | × 401.8 | = Inch Water 59F |
| | × 1.0197 | = Kilogram/Sq Centimeter |
| | × 10197. | = Kilogram/Sq Meter |
| | × 1.0 | = Megadyne/Sq Centimeter |
| | × .7501 | = Meter Mercury 32F |
| | × 10.21 | = Meter Water 59F |
| | × 2088.55 | = Pound/Square Foot |
| | × 14.50 | = Pound/Square Inch |
| | × .06895 | = Square Inch/Pound |
| | × 1.044 | = Ton Short/Square Foot |
| Megabarye | × .6/o986923 | = Atmosphere 32F-76cm |
| | × 1.0 | = Bar |
| | × 1(6/o). | = Barye |
| | × .4/o75006 | = Centimeter Mercury 32F |
| | × 1(6/o). | = Dyne/Square Centimeter |
| | × 1.013 | = Hectopieze |

| | | |
|---|---|---|
| Megabarye | × .4/o2953 | = Inch Mercury 32F |
| | × .0004015 | = Inch Water 39.2F |
| | × .01019716 | = Kilogram/Square Meter |
| | × .1 | = Newton |
| | × .002089 | = Pound/Square Foot |
| | × .5/o145 | = Pound/Square Inch |
| | × .5/o1044 | = Ton Short/Square Foot |
| Megadyne | × 1(6/o). | = Dyne |
| | × 1.02 | = Kilogram-Force |
| | × 2.248 | = Pound-Force |
| Megadyne/Square Centimeter | × .9869 | = Atmosphere |
| | × 1.0197 | = Atmosphere Metric |
| | × 1(6/o). | = Bar |
| | × 33.49 | = Feet Water 59F |
| | × 29.53 | = Inch Mercury 32F |
| | × 401.8 | = Inch Water 59F |
| | × 1.0197 | = Kilogram/Sq Centimeter |
| | × 10197. | = Kilogram/Square Meter |
| | × 1.0 | = Megabar |
| | × .7501 | = Meter Mercury 32F |
| | × 10.21 | = Meter Water 59F |
| | × 2088.55 | = Pound/Square Foot |
| | × 14.50 | = Pound/Square Inch |
| | × .06895 | = Sqin/Pound |
| | × 1.044 | = Ton Short/Square Foot |
| Magameter | × 1(6/o). | = Meter |
| | × 1093611.14 | = Yard US |
| Megmho/Cubic Centimeter | × 2.540 | = Megmho/Cubic Inch |
| | × .1662 | = Mho/Mil-Foot |
| Megmho/Cubic Inch | × .3937 | = Megmho/Cubic Centimeter |
| | × .06542 | = Mho/Mil-Foot |
| Megohm | × 1(15/o). | = Abohm |
| | × 1(12/o). | = Microhm |
| | × 1(6/o). | = Ohm |
| | × .5/o1112 | = Statohm |
| Mercuric: Hg | = + 2 | = Valence |
| Mercurous: Hg | = + 1 | = Valence |
| Mercury: (Hg): #80:200.61 AW: SpHt, .0332:13.546 gm cc: | | |
| Density: Pound/Cubic Inch | × Inch Hgt Diff | = psi Gage Pressure |
| Linear Expansion: Inch | × 10.0 | = Micro-Inch/Degree F |
| Spg 13.5951: Boiling Point | = 356.7 | = Degree C (Thermodynamic) |
| | = 356.57 | = Degree C (International) |
| Cubic Foot | × 848.67 | = Pound Weight 39.1F |
| Cubic Inch | × .491 | = Pound |
| Mercury: (Spg 13.56 @ 32F): Centimeter | × .0131579 | = Atmosphere 76cm 32F |
| | × 13332.237 | = Dyne/Square Centimeter |
| | × .44604 | = Feet Water 39.2F |
| | × 13.59508 | = Gram/Square Centimeter |
| | × .3937 | = Inch Mercury 32F |
| | × 5.354 | = Inch Water 4C |
| | × 135.9508 | = Kilogram/Square Meter |
| | × .001333 | = Newton/Square Meter |
| | × 27.8450 | = Pound/Square Foot |
| | × .193368 | = Pound/Square Inch |
| | × .01392 | = Ton Short/Square Foot |
| Mercury: (Spg 13.56 @ 32F): Inch | × .033421 | = Atmosphere 76cm 32F |
| | × .03453 | = Atmosphere Metric |
| | × 28.5 | = Bar |
| | × 2.540 | = Centimeter Hg 32F |
| | × 33864. | = Dyne/Square Centimeter |
| | × 1.133 | = Feet Water 39.2F |
| | × 1.134 | = Feet Water 15C |
| | × 34.532 | = Gram/Square Centimeter |
| | × 13.6 | = Inch Water 4C |
| | × 13.61 | = Inch Water 15C |
| | × .03453 | = Kilogram/Square Centimeter |

| | | |
|---|---|---|
| Mercury: (Spg 13.56 @ 32F): Inch | × 345.32 | = Kilogram/Square Meter |
| | × .03386 | = Megabar |
| | × .03386 | = Megadyne/Square Centimeter |
| | × .02540 | = Meter Mercury 32F |
| | × .3456 | = Meter Water 15C |
| | × .003386 | = Newton |
| | × 70.7256 | = Pound/Square Foot |
| | × .49115 | = Pound/Square Inch |
| | × .03536 | = Ton Short/Square Foot |
| Mercury: (Spg 13.56 @ 62F): Inch | × 13.58 | = Inch Water 62F |
| | × 7.847 | = Ounce/Square Inch |
| Mercury: (Spg 13.56 @ 70F): Inch | × 1.1309 | = Feet Water |
| | × 16.4523 | = Inch Red Oil 70F |
| | × 13.5707 | = Inch Water |
| | × 7.8285 | = Ounce/Square Inch |
| | × .4895 | = Pound/Square Inch |
| Mercury: (Spg 13.56 @ 32F): Meter | × 1.316 | = Atmosphere |
| | × 1.3595 | = Atmosphere Metric |
| | × 44.64 | = Foot Water 15C |
| | × 39.37 | = Inch Mercury 32F |
| | × 535.7 | = Inch of Water 15C |
| | × 1.3595 | = Kilogram/Square Centimeter |
| | × 1.3332 | = Megabar |
| | × 1.3332 | = Megadyne/Square Centimeter |
| | × 13.61 | = Meter Water 15C |
| | × 2784.5 | = Pound/Square Foot |
| | × 19.34 | = Pound/Square Inch |
| | × 1.392 | = Ton Short/Square Foot |
| Mercury: (Spg 13.56 @ 32F): Micron | × .5/o131579 | = Atmosphere 76cm 32F |
| | × 1.333224 | = Dyne/Square Centimeter |
| | × .0013595 | = Gram/Square Centimeter |
| Metal: Chemical Activity: Li, K, Na, Ca, Mg, Al, Mn, Zn, Cr, Fe, Cd, Co, Ni, Sn, Pb, (H), Cu, Sb, Bi, As, Hg, Ag | | |
| Meter | × 1(10/o). | = Angstrom |
| | × 100. | = Centimeter |
| | × .0497096 | = Chain Gunter |
| | × .1 | = Decameter |
| | × 10. | = Decimeter |
| | × 3.18620 | = Feet Prussian |
| | × 3.280833 | = Feet US |
| | × .01 | = Hectometer |
| | × 39.370113 | = Inch British Standard |
| | × 39.3700000 | = Inch US Standard |
| | × .001 | = Kilometer |
| | × 443.84 | = Lignes Paris |
| | × 4.970960 | = Link Gunter |
| | × 1(6/o). | = Micron |
| | × 1(9/o). | = Millimicron |
| | × .0005396 | = Mile US Nautical |
| | × .0006214 | = Mile US Statute |
| | × 1000. | = Millimeter |
| | × .198838 | = Rod |
| | × 1.09361114 | = Yard US |
| Meter-Candle | = 1.0 | = Lux |
| Metering Water w/Orifice Plate: Sq Root Height Inch | × 2.315 | = Feet/Second |
| Meter/Minute | × 1.667 | = Centimeter/Second |
| | × 3.281 | = Feet/Minute |
| | × .05468 | = Feet/Second |
| | × .06 | = Kilometer/Hour |
| | × .03238 | = Knot US |
| | × .01667 | = Meter/Second |
| | × .03728 | = Mile Statute US/Hour |
| Meter/Second | × 100. | = Centimeter/Second |
| | × 196.85 | = Feet/Minute |
| | × 3.281 | = Feet/Second |
| | × 3.6 | = Kilometer/Hour |
| | × .06 | = Kilometer/Minute |

| | | |
|---|---|---|
| Meter/Second | × .1 | = Kine |
| | × 1.943 | = Knot US |
| | × 60. | = Meter/Minute |
| | × .0062137 | = Mile/Second |
| | × 2.23693 | = Mile US Statute/Hour |
| Meter/Second/Second | × 3.281 | = Feet/Second/Second |
| | × 3.6 | = Kilometer/Hour/Second |
| | × 2.23693 | = Mile US/Hour/Second |
| Methane | + Oxygen | = Carbon Dioxide + Water |
| Methane: 30Hg60F: Gas: Boiling Point | = 201.19 | = Degree R |
| Critical Pressure | = 673. | = psi |
| Critical Temperature | = 343.19 | = Degree R |
| Cuft | × 1013. | = Btu Gross Combustion Heat |
| | × 9.55 | = Cuft Air to Burn |
| | × .04245 | = Pound |
| Cuft Mixed Air-Gas | × 94.94 | = Btu Gross Combustion Heat |
| Density: Cuft | × .0422 | = Pound |
| Flame Propagation 1" Tube | = 2.17 | = fps Max Rate |
| Flame Temperature | = 3630. | = Degree F Max |
| Inflammability | = 14. | = % Gas Upper Limit |
| | = 5.3 | = % Gas Lower Limit |
| Melting Point | = 430.04 | = Degree R |
| Molecular Weight | = 16.032 | |
| % @ Max Flame Propagation Rate | = 9.96 | |
| Pound | × 23861 | = Btu |
| | × 245. | = Btu Heat Vaporization @ BP |
| | × 17.274 | = Pound Air for Combustion |
| Specific Gravity | = .5544 | (Air = 1) |
| Specific Heat: Cuft | × .0251 | = Btu |
| Pound | × .526 | = Btu |
| Ratio | = 1.303 | |
| Methane: 30Hg60F: Liquid: Degree API | = 340 | |
| Gallon | × 59.17 | = Cuft |
| | × 2.5 | = Pound |
| Pound | × 23.66 | = Cuft |
| Specify Gravity | = .3 | |
| Mev | × .5/o16 | = Erg |
| | × 1(6/o). | = Electron Volt |
| | × .12/o118 | = Foot-Pound |
| | × .13/o383 | = Gram-Calorie |
| | × .19/o596 | = Horsepower-Hour |
| | × .19/o445 | = Kilowatt-Hour |
| | × .0017 | = Mass Unit |
| Mho | × Ohm | = 1.0 |
| | × .5/o1 | = Megmho |
| | × 1(6/o). | = Micromho |
| Mho (B) | × 1.0 | = Susceptance Unit |
| Susceptance × Ohm Squared Impedance | × 1. | = Ohm Reactance |
| Mho (G) | × 1.0 | = Conductance Unit |
| Conductance × Ohm Squared Impedance | × 1. | = Ohm Resistance |
| Mho (Y) | × 1.0 | = Admittance Unit |
| Admittance | × Volt | = Ampere |
| Mho/Centimeter Cube | × 1.0 | = Conductivity Unit |
| Mho/Meter | × .10/o1 | = Abmho/Centimeter |
| | × .10/o1 | = Abmho/Centimeter Cube |
| | × 1.0 | = Mho/Meter Cube |
| | × .8/o1662 | = Mho-Mil-Foot |
| | × .8/o1662 | = Mho/Mil-Foot |
| | × .7/o1 | = Micromho/Centimeter |
| | × .7/o1 | = Micromho/Centimeter Cube |
| | × .7/o254 | = Micromho/Inch |
| | × .7/o254 | = Micromho/Inch Cube |
| Mho/Meter × gm/cc | = .5/o1 | × Mho/Meter-Gram |
| | = .5/o1 | × Mho-Meter-Gram |
| Mho/Meter Cube | × 1.0 | = Mho/Meter |
| Mho/Meter-Gram | × 1.0 | = Mho-Meter-Gram |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Mho-Meter-Gram × gm/cc | × .4/o1 | = Abmho/Centimeter |
| | × .4/o1 | = Abmho/Centimeter Cube |
| | × .001662 | = Mho/Mil-Foot |
| | × .001662 | = Mho-Mil-Foot |
| | × 1(6/o). | = Mho/Meter |
| | × 1(6/o). | = Mho/Meter Cube |
| | × 1.0 | = Mho/Meter-Gram |
| | × .01 | = Micromho/Centimeter |
| | × .01 | = Micromho/Centimeter Cube |
| | × .0254 | = Micromho/Inch |
| | × .0254 | = Micromho/Inch Cube |
| Mho/Mil-Foot | × 1. | = Conductivity Unit |
| | × 1.0 | = Mho-Mil-Foot |
| Mho-Mil-Foot | × .006015 | = Abmho/Centimeter |
| | × .006015 | = Abmho/Centimeter Cube |
| | × 6015(5/o). | = Mho/Meter |
| | × 6015(5/o). | = Mho/Meter Cube |
| | × 1.0 | = Mho/Mil-Foot |
| | × 6.015 | = Micromho/Centimeter |
| | × 6.015 | = Micromho/Centimeter Cube |
| | × 15.28 | = Micromho/Inch |
| | × 15.28 | = Micromho/Inch Cube |
| × gm/cc | = 601.5 | × Mho-Meter-Gram |
| | = 601.5 | × Mho/Meter-Gram |
| Micro | = .5/o1 = $10^{-6}$ | = One Millionth |
| Microamp | × 624(10/o). | = Unit Charge/Second |
| Microfarad | × .14/o1 | = Abfarad |
| | × .5/o1 | = Farad |
| | × 898800. | = Statfarad |
| Microgram | × 1.0 | = Gamma |
| | × .5/o1 | = Gram |
| | × .001 | = Milligram |
| Microgram ($B_1$) | × 1.0 | = Gamma |
| | × .33333 | = International Unit |
| | × .001 | = Milligram |
| | × .66666 | = Sherman Unit |
| Microgram (G) | × .001 | = Milligram |
| | × .4 | = Sherman-Bourquin Unit |
| Microhenry | × 1000. | × Abhenry |
| | × .5/o1 | = Henry |
| | × .001 | = Millihenry |
| | × .17/o1112 | = Stathenry |
| Micromho | × .6 | = ppm Impurity-Steam-77F |
| Microhm | × 1000. | = Abohm |
| | × .11/o1 | = Megohm |
| | × .5/o1 | = Ohm |
| | × .17/o1112 | = Statohm |
| Microhm-Centimeter | × 1000. | = Abohm-Centimeter |
| | × 1000. | = Abohm/Centimeter Cube |
| | × 6.0153 | = Circular Mil-Ohm/Foot |
| | × 1.0 | = Microhm/Centimeter Cube |
| | × .3937 | = Microhm-Inch |
| | × .3937 | = Microhm/Inch Cube |
| | × .7/o1 | = Ohm-Meter |
| | × .7/o1 | = Ohm/Meter |
| | × 6.015 | = Ohm-Mil-Foot |
| | × 6.015 | = Ohm/Mil-Foot |
| | × 1.0 | = Volume Resistivity Unit |
| Microhm-Centimeter × gm/cc | × .01 | = Ohm-Meter-Gram |
| | × .01 | = Ohm/Meter-Gram |
| Microhm/Centimeter Cube | × 1.0 | = Microhm-Centimeter |
| Microhm-Inch | × 2540. | = Abohm-Centimeter |
| | × 2540. | = Abohm/Centimeter Cube |
| | × 15.2789 | = Circular Mil-Ohm/Foot |
| | × 2.54 | = Microhm-Centimeter |
| | × 2.54 | = Microhm/Centimeter Cube |

| | | |
|---|---|---|
| Microhm-Inch | × 1.0 | = Microhm/Inch Cube |
| | × .7/o254 | = Ohm-Meter |
| | × .7/o254 | = Ohm/Meter |
| | × 15.2789 | = Ohm-Mil-Foot |
| | × 15.2789 | = Ohm/Mil-Foot |
| Microhm-Inch × gm/cc | × .0254 | = Ohm-Meter-Gram |
| | × .0254 | = Ohm/Meter-Gram |
| Microhm/Inch Cube | × 2.54 | = Microhm/Centimeter Cube |
| | × 1.0 | = Microhm-Inch |
| | × 15.28 | = Ohm/Mil-Foot |
| Micro-Inch | × .5/o1 | = Inch |
| | × .4/o254 | = Millimeter |
| Microliter | × .5/o1 | = Liter |
| Micromho/Centimeter | × .001 | = Abmho/Centimeter |
| | × .001 | = Abmho/Centimeter Cube |
| | × 1(8/o). | = Mho/Meter |
| | × 1(8/o). | = Mho/Meter Cube |
| | × .1662 | = Mho/Mil-Foot |
| | × .1662 | = Mho-Mil-Foot |
| | × 1.0 | = Micromho/Centimeter Cube |
| | × 2.54 | = Micromho/Inch |
| | × 2.54 | = Micromho/Inch Cube |
| Micromho/Centimeter × gm/cc | = 100. | × Mho/Meter |
| | = 100. | × Mho-Meter Cube |
| Micromho/Centimeter Cube | × 1.0 | = Micromho Centimeter |
| Micromho/Inch | × .3/o3937 | = Abmho/Centimeter |
| | × .3/o3937 | = Abmho/Centimeter Cube |
| | × 3937(4/o). | = Mho/Meter |
| | × 3937(4/o). | = Mho/Meter Cube |
| | × .06524 | = Mho/Mil-Foot |
| | × .3937 | = Micromho/Centimeter |
| | × .3937 | = Micromho/Centimeter Cube |
| | × 1.0 | = Micromho/Inch Cube |
| Micromho/Inch × gm/cc | = 39.37 | × Mho/Meter |
| | = 39.37 | × Mho/Meter Cube |
| Micromho/Inch Cube | × 1.0 | = Micromho/Inch |
| Micromicro | = .11/o1 = $10^{-12}$ | = One Trillionth |
| Micromicrofarad Minus 12 | = 67.5 | × Oil Dielectric Constant |
| Micromicron | × .5/o1 | = Micron |
| | × .9/o1 | = Millimeter |
| | × .001 | = Millimicron |
| Micron | × 10000. | = Angstrom |
| | × .0001 | = Centimeter |
| | × .5/o32808 | = Feet |
| | × .4/o3937 | = Inch |
| | × .8/o1 | = Kilometer |
| | × .5/o1 | = Meter |
| | × 1(6/o). | = Micromicron |
| | × .001 | = Millimeter |
| | × 1000. | = Millimicron |
| | × 39.37 | = Millionth of Inch |
| | × .5/o10936 | = Yard |
| Microvolt | × 100. | = Abvolt |
| | × .001 | = Millivolt |
| | × .8/o3335 | = Statvolt |
| | × .5/o1 | = Volt |
| Microvolt/Meter | × 1.0 | = Abvolt/Centimeter |
| | × .10/o1 | = Kilovolt/Centimeter |
| | × .001 | = Millivolt/Meter |
| | × .10/o3335 | = Statvolt/Centimeter |
| | × .7/o1 | = Volt/Centimeter |
| | × .7/o254 | = Volt/Inch |
| | × .10/o254 | = Volt/Mil |
| | × .5/o1 | = Volt/Meter |
| Mil | × .00254000508 | = Centimeter |
| | × .4/o8333 | = Feet US |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Mil | × .001 | = Inch |
| | × 25.4001 | = Microns |
| | × .0254000508 | = Millimeter |
| Mil (Gunnery Angle Unit) | × .05625 | = Degree |
| Mil (Swedish Mile) | × 6000. | = Famm |
| | × 10.6884 | = Kilometer |
| | × 6.6415 | = Mile Statute US |
| Mile/Hour | × 44.704 | = Centimeter/Second |
| | × 88. | = Feet/Minute |
| | × 1.46666 | = Feet/Second |
| | × 1.609347 | = Kilometer/Hour |
| | × 26.82 | = Meter/Minute |
| | × .4470 | = Meter/Second |
| | × .01666 | = Mile/Minute |
| | × .86839 | = Mile Nautical US/Hour |
| | × 1.0 | = Mile Statute US/Hour |
| Mile/Hour/Second | × 44.704 | = Centimeter/Sec/Sec |
| | × 1.46667 | = Feet/Second/Second |
| | × 1.60935 | = Kilometer/Hour/Second |
| | × .44704 | = Meter/Second/Second |
| | × 1.0 | = Mile Statute US/Hr/Sec |
| Mile/Minute | × 5280. | = Feet/Minute |
| | × 316800. | = Feet/Hour |
| | × 88. | = Feet/Second |
| | × 60. | = Mile/Hour |
| | × 1.0 | = Mile Statute US/Minute |
| Mile Nautical British | × 6080. | = Feet |
| | × 1853.19 | = Meter |
| | × 1.15152 | = Mile Statute US |
| Mile Nautical US | × 7.5 | = Cable Length |
| | × 92.1243 | = Chain Gunter |
| | × 6080.204 | = Feet US |
| | × 6080. | = Feet British |
| | × 72962.5 | = Inch |
| | × 1.853248 | = Kilometer |
| | × .333 | = League |
| | × 1853.248 | = Meter |
| | × 1.0 | = Mile Geographical |
| | × 1.15155 | = Mile Statute US |
| | × 1. | = Minute Longitude @ Equator |
| | × 368.497 | = Rod |
| | × 1.0 | = Sea Mile |
| | × 2026.73 | = Yard |
| Mile Nautical US/Hour | × 1.0 | = Knot US |
| Mile-Pound | × 5280. | = Foot-Pound |
| | × .00266666 | = Horsepower-Hour US |
| | × .00270366 | = Horsepower-Hour Metric |
| | × .0019884 | = Kilowatt-Hour |
| Mile-Pound/Hour | × 88. | = Foot-Pound/Minute |
| | × .002667 | = Horsepower US |
| | × 12.177 | = Kilogram-Meter/Minute |
| | × 1.9874 | = Watt |
| Mile-Pound/Minute | × 5280. | = Foot-Pound/Minute |
| | × .16192 | = Horsepower Metric |
| | × .159 | = Horsepower US |
| | × .119248 | = Kilowatt |
| | × 119.248 | = Watt |
| Mile Statute US | × 160934.72 | = Centimeter |
| | × 52.8 | = Chain Engineer |
| | × 80. | = Chain Gunter |
| | × 5280. | = Feet |
| | × 8. | = Furlong |
| | × 63360. | = Inch |
| | × 1.6093472 | = Kilometer |
| | × 1.0 | = Land Mile |
| | × 8000. | = Link |

| | | |
|---|---|---|
| Mile Statute US | × 1609.3472 | = Meter |
| | × .86839 | = Mile Nautical US |
| | × 1.0 | = Mile US |
| | × 320. | = Rod |
| | × 1900.8 | = Vara |
| | × 1760. | = Yard |
| Milla | × 1.1594 | = Mile US |
| Milli | = .001 = $10^{-3}$ | = One-Thousandth |
| Milliard | × 1. | = Billion US |
| Millicurie | × 1.0 | = Milligram Radium |
| Millicurie at 12" | × 46362. | = Count/Minute |
| | × .15333 | = Milliroentgen/Minute |
| | × .0092 | = Roentgen/Hour |
| Millier | × 1(6/o). | = Gram |
| | × 1000. | = Kilogram |
| | × 2204.6 | = Pound Avoir |
| | × .9842 | = Ton Long US |
| | × 1.0 | = Ton Metric |
| | × 1.1023 | = Ton Short US |
| Milligram (mg) | × .000257206 | = Dram Apoth |
| | × .000564383 | = Dram Avoir |
| | × 1000. | = Gamma |
| | × .015432356 | = Grain Troy-Apoth-Avoir |
| | × .001 | = Gram |
| | × .5/o1 | = Kilogram |
| | × 1000. | = Microgram |
| | × .4/o32151 | = Ounce Apoth |
| | × .4/o352739 | = Ounce Avoir |
| | × .000643015 | = Pennyweight |
| | × .5/o2679 | = Pound Apoth-Troy |
| | × .5/o2205 | = Pound Avoir |
| | × .000771618 | = Scruple |
| Milligram ($B_1$) | × 333.33 | = International Unit |
| | × 1000. | = Microgram |
| | × 666.66 | = Sherman Unit |
| Milligram (C) | × 20. | = International Unit |
| | × 2. | = Sherman Unit |
| | × 20. | = USPX1 Unit |
| Milligram (G) | × 1000. | = Gamma |
| | × 1000. | = Microgram |
| | × 400. | = Sherman-Bourquin Unit |
| Milligram Gold (Assay Extracted) | × 1.0 | = Ounce Troy/Ton of Ore |
| Milligram Radium | × 1.0 | = Millicurie |
| Milligram Radium at 12" | × 46362. | = Count/Minute |
| Milligram/Second | × 3.6 | = Gram/Hour |
| | × .0864 | = Kilogram/Day |
| | × 1.01458 | = Kilo-Ounce Troy/Year |
| | × .12699 | = Ounce Avoir/Hour |
| | × .11574 | = Ounce Troy/Hour |
| | × 2.7777 | = Ounce Troy/Day |
| | × .19048 | = Pound Avoir/Day |
| | × .0079367 | = Pound Avoir/Hour |
| | × .031557 | = Ton Metric/Year |
| | × .034786 | = Ton Short Avoir/Year |
| Millihenry | × 1(6/o). | = Abhenry |
| | × .001 | = Henry |
| | × 1000. | = Microhenry |
| | × .14/o111279 | = Stathenry |
| Millilambert | × .0003183 | = Candle/Square Centimeter |
| | × .0020538 | = Candle/Square Inch |
| | × .929 | = Foot-Lambert |
| | × .001 | = Lambert |
| | × .929 | = Lumen/Square Foot |
| | × .003183 | = Lumen/Sqcm/Steradian |
| Milliliter | × 1.000028 | = Cubic Centimeter |
| | × .06102705 | = Cubic Inch |

| | | |
|---|---|---|
| Milliliter | × .2705179 | = Dram Apoth |
| | × .000264178 | = Gallon Liquid US |
| | × .001 | = Liter |
| | × 16.2311 | = Minim |
| | × .0338147 | = Ounce Fluid US |
| | × .0018 | = Pint |
| | × .00105671 | = Quart Liquid US |
| Millimeter | × 1(7/o). | = Angstrom |
| | × .4/o497 | = Chain Gunter |
| | × .10 | = Decimeter |
| | × .003280839 | = Foot |
| | × .039370078 | = Inch |
| | × .001 | = Meter |
| | × 1000. | = Micron |
| | × .6/o54 | = Mile Nautical |
| | × .6/o62 | = Mile Statute US |
| | × 39.37 | = Mil |
| | × 1(6/o). | = Millimicron |
| | × .3/o199 | = Rod |
| | × .00109361114 | = Yard US |
| | × 2.51968 | = 64ths of an Inch |
| Millimeter Mercury (0°C) | × .133322 | = Kilopascal |
| Millimicro | = .8/o1 = $10^{-9}$ | = One-Billionth |
| Millimicron | × .6/o1 | = Centimeter |
| | × .8/o32808 | = Feet |
| | × .7/o3937 | = Inch |
| | × .11/o1 | = Kilometer |
| | × .8/o1 | = Meter |
| | × .001 | = Micron |
| | × .5/o1 | = Millimeter |
| | × .8/o10936 | = Yard |
| Million | × Million | = Billion (British-German) |
| | × 1000. | = Milliard |
| Milliphot | × .929 | = Foot-Candle |
| | × 10. | = Lux |
| | × .001 | = Phot |
| Millivolt | × 1(5/o). | = Abvolt |
| | × 1000. | = Microvolt |
| | × .5/o3335 | = Statvolt |
| | × .001 | = Volt |
| Millivolt/Meter | × 1000. | = Abvolt/Centimeter |
| | × .7/o1 | = Kilovolt/Centimeter |
| | × 1000. | = Microvolt/Meter |
| | × .7/o3335 | = Statvolt/Centimeter |
| | × .4/o1 | = Volt/Centimeter |
| | × .4/o254 | = Volt/Inch |
| | × .001 | = Volt/Meter |
| | × .7/o254 | = Volt/Mil |
| Mina | × .95 | = Pound Avoir |
| Miners-Inch | × 5 to 10 | = Acre (Will Irrigate) |
| | × 1.0 | = Gallon/Second (Common) |
| Miners-Inch (4" Head) | × .02 | = Cubic Feet/Second |
| (6.5" Head) | × .025 | = Cubic Feet/Second |
| (US Reclamation Service) | × 1.0 | = Cubic Feet/Second |
| Miners-Inch (Arizona-California) | × 2160. | = Cubic Feet/Day |
| | × 1.5 | = Cubic Feet/Minute |
| | × 16157.921 | = Gallon Liquid US/Day |
| | × 11.221 | = Gallon Liquid US/Minute |
| | × .025 | = Second-Foot |
| Miners-Inch (Colorado) | × 2249.856 | = Cubic Feet/Day |
| | × 1.5624 | = Cubic Feet/Minute |
| | × 16830.091 | = Gallon Liquid US/Day |
| | × 11.687 | = Gallon Liquid US/Minute |
| | × .02604 | = Second-Foot |
| Minim | × .003760 | = Cubic Inch |
| | × .0166667 | = Dram Fluid |

| | | |
|---|---|---|
| Minim | × 1.0 | = Drop (Water) |
| | × 2.0 | = Drops (Alcoholic Medicine) |
| | × .4/o16276 | = Gallon Liquid US |
| | × .000520833 | = Gill |
| | × .4/o6161 | = Liter |
| | × .0616102 | = Milliter |
| | × .00208333 | = Ounce Fluid |
| | × .000130208 | = Pint Liquid US |
| | × .4/o65104 | = Quart Liquid US |
| Minute | × .4/o463 | = Circle |
| | × .000694 | = Day |
| | × .016666 | = Degree |
| | × .01852 | = Grade |
| | × .01666 | = Hour |
| | × .4/o228 | = Month (1/12 Year) |
| | × .000290888 | = Radian |
| | × .4/o463 | = Revolution |
| | × 60. | = Second |
| | × .0001852 | = Quadrant |
| | × .5/o1903 | = Year |
| Minute in Arc × Radius | × .000290888 | = Length of Arc |
| Minute of Longitude | × 4.0 | = Second of Time |

Moh Scale: 1-Talc 2-Gypsum 3-Calc Spar 4-Flourspar 5-Apatite 6-Feldspar 7-Quartz 8-Topaz 9-Sapphire 10-Diamond

| | | |
|---|---|---|
| Mol (Any Gas 60F-14.7 psia) | × 379. | = Cubic Feet |
| | × 1.0 | = Gram-Molecule |
| | × 1.0 | = Mole |

Molal Solution = 1 Mole of Solute in 1000 gm of Water
Molar Solution = 1 Mole of Solute in a Liter of Solution.

| | | |
|---|---|---|
| Mole | × 1.0 | = Gram-Molecular Weight |

Mole = Molecular or Formula wgt in gms of Solute in a Liter of Solution.

| | | |
|---|---|---|
| Molecular Pound-Mass (Fluid) | × 1.0 | = Mol |
| Molecular Pound-Volume (Fluid) | × 1.0 | = Mol-Volume |
| Molecular Weight | × Pound Weight | = Mol Weight |
| | × Gram Weight | = Mol Weight |
| Molecular Weight in Grams | | = Gram-Molecular Weight |

Molecular Weight = Sum of Atomic Weights in Compound or Element.

| | | |
|---|---|---|
| Molecular Weight × (R=cuft-Lb/°R/Lb | = 1544. | = Molar Gas Constant |

Molybdenum: (Mo):#42:95.95 AW: .064 SpHt: gm/cc 10.2 .35 gm-cal/Sec/Sqcm/°C/cm.

| | | |
|---|---|---|
| Linear Expansion: Inch | × 3.0 | = Micro-Inch/Degree F |
| Monel: Linear Expansion: Inch | × 7.8 | = Micro-Inch/Degree F |
| Monosodium Phosphate + Cal Carb + Sod Hydrox | = Cal Phos | + Sod Carb + Water |
| Month Calendar | × 30. | = Day (Standard Calculation) |
| | × 720. | = Hour |
| | × 43200. | = Minute |
| | × 2592000. | = Second |
| Month Lunar | × 28. | = Day |
| Mortar: Cubic Feet | × .30 | = Will Lay Cubic Feet Brick |

Regular: In Parts: 1 Portland Cement: 3 Sand: .2 Hyd Lime.
Rich: In Parts: 1 Portland Cement: 2 Sand: .2 Hyd Lime.
Waterproof: 10# Lime to 1 Sack of Cement.

Mortar or Brick Wash: Water + HC1(10%)

| | | | |
|---|---|---|---|
| Mortar (1:2) | :Cubic Yard Mortar | × .94 | = Cubic Yard Sand. |
| | | × .65 | = Ton of Patent Plaster |
| | Cubic Yard Sand | × .6915 | = Ton of Patent Plaster |
| | Ton of Patent Plaster | × 1.466 | = Cubic Yard Sand |
| Mortar(1:2-1/2) | :Cubic Yard Mortar | × .96 | = Cubic Yard Sand |
| | | × .58 | = Ton of Patent Plaster |
| | Cubic Yard Sand | × .6042 | = Ton of Patent Plaster |
| | Ton Patent Plaster | × 1.655 | = Cubic Yard Sand |
| Mortar (1:3) | :Cubic Yard Mortar | × 1.00 | = Cubic Yard Sand |
| | | × .50 | = Ton of Patent Plaster |
| | Cubic Yard Sand | × .50 | = Ton of Patent Plaster |
| | Ton of Patent Plaster | × 2.00 | = Cubic Yard Sand |
| Mortar (1/2:1:2) | Cuyd | × 1.76 | = Barrels Cement |
| | Cuyd | × 7.04 | = Sack Cement |

| | | | |
|---|---|---|---|
| Mortar (1/2:1:3) | Cuyd | × 1.19 | = Barrels Cement |
| | Cuyd | × 4.76 | = Sack Cement |
| (1/2:1:2)(1/2:1:3) | Cuyd | × 1.00 | = Cubic Yard Sand |
| (1:1:2)(1:1/2:2)(1:2:10%LP) | Cuyd | × 3.02 | = Barrel Cement (LP=Lime Putty) |
| | Cuyd | × .91 | = Cubic Yard Sand |
| | Cuyd | × 1135.52 | = Pounds (376) Cement |
| | Cuyd | × 1147.6 | = Pounds (380) Cement |
| | Cuyd | × 12.08 | = Sack Cement |
| (1:1:3)(1:1/2:3)(1:3:10%LP) | Cuyd | × .94 | = Cubic Yard Sand |
| | Cuyd | × 2.28 | = Barrel Cement |
| | Cuyd | × 857.28 | = Pounds (376) Cement |
| | Cuyd | × 846.4 | = Pounds (380) Cement |
| | Cuyd | × 9.12 | = Sack Cement |
| Mud: Aquagel-Water: Gallon | | × 8.7 | = Pound |
| Common Earth: Cubic Yard | | × 2500. | = Pound |
| Drilling: Dry Baroid Sack | | × 100. | = Pound (Spg 4.3) Weight |
| Each 1000' of Hole | | × Diam Sqin | = Barrel (42) of Mud |
| Wet: Aquagel: Ton | | × 100. | = Barrel (42) Mud (Will Make) |
| Bentonite: Ton | | × 100. | = Barrel (42) Mud (Will Make) |
| Barrel (42) | | × .6 | = Sack Barite (to Raise 1#/gal) |
| | | × .01 | = Ton Aquagel Needed |
| | | × .01 | = Ton Bentonite Needed |
| Gallon | | × 10. | = Pound (Common) |
| | | × 19. | = Pound (Maximum) |
| Pound/Gallon | | × .052 | = psi/Foot of Depth |
| Mud/Pump: psi Standpipe Circ Press × gpm | | × .00058343 | = Horsepower Output |
| Myria | | = 1(4/o). = $10^4$ | = Ten Thousand |
| Myriagram | | × 10000. | = Gram |
| | | × 22.04622 | = Pound Avoir |
| | | × 26.792 | = Pound Troy |
| Myrialiter | | × 283.7 | = Bushel US Struck |
| | | × 353.1 | = Cubic Feet |
| | | × 2641.4 | = Gallon Liquid US |
| Myriameter | | × 10. | = Kilometer |
| | | × 10000. | = Meter |
| | | × 6.2137 | = Mile Statute US |
| | | × 10936.1114 | = Yard US |

## N

| | | |
|---|---|---|
| Nail | × 2.5 | = Inch |
| Nail: Cloth | × 5.715 | = Centimeter |
| | × 2.25 | = Inch |
| | × .25 | = Quarter |
| | × .1875 | = Yard |
| Nail: Common Cut: Pound | × (1340/d)-7 | = Number Nails(d=Penny Size) |
| Keg | × 100. | = Pound |
| Penny Size (Up to 10d) × .25 | + .5 | = Inch Length |
| Naptha:68F Cubic Foot | × 42. | = Pound |
| Napthalene: 60F-30"Hg | = 4.423 | = Specific Gravity (Air = 1) |
| Cubic Feet | × .3387 | = Pound |
| Pound | × 2.95 | = Cubic Feet |
| Natural Gas | = 70% | = Average Apparatus Efficiency |
| | = .5866 | = Btu/Pound Constant Pressure |
| | = .4457 | = Btu/Pound Constant Volume |
| | = .00367 | = Expansion Coefficient |
| | = 85.40 | = Gas Constant |
| | = .6243 | = Specific Gravity |
| | = 1.315 | = Specific Heat Ratio |
| Natural Gas: Cubic Foot | × 850 to 1200 | = Btu (Average Range) |
| | × 1000. | = Btu (Use as Heat Value) - Avg. |
| | × 2.05 | = Cuft Manufactured Gas |
| | × 876000. | = Foot Pound |
| | × .44 | = Horsepower-Hour US |
| | × 1190000. | = Joule |
| | × .33 | = Kilowatt-Hour |
| | × .086 | = Pound Anthracite |
| | × .18 | = Pound Dry Wood |

| | | |
|---|---|---|
| Natural Gas: Cubic Foot | × .059 | = Pound Fuel Oil |
| | × 1.16 | = Pound Water Evap @ 212F |
| | × .05037 | = Pound Weight |
| Natural Gas: 2" Pipe: Sq Rt (Initial psi sqd | - final psi sqd) | × 4770 = SqRt Miles × cuft/Day |
| 3" Pipe: Sq Rt (Initial psi sqd | - final psi sqd) | × 13661 = SqRt Miles × cuft/Day |
| 5.625 Pipe: Sq Rt (Initial psi sqd | - final psi sqd) | × 68848 = SqRt Miles × cuft/Day |
| 6" Pipe: Sq Rt (Initial psi sqd | - final psi sqd) | × 84232 = SqRt Miles × cuft/Day |
| Natural Gas Pound Weight | × 19.86 | = Cubic Feet |
| | × 15. | = Pound Water Evap @ 212F |
| Neodymium: (Nd): #60:144.27 AW: | | |
| Neon: (Ne): #10:20.183 AW: | | |
| Density: Liter | × .9005 | = Gram |
| Newton | × 100000. | = Dyne |
| | × 102. | = Gram-Force |
| | × .01 | = Joule/Centimeter |
| | × 1.0 | = Joule/Meter |
| | × .102 | = Kilogram-Force |
| | × 32.1739 | = Kilogram-Mass |
| | × fpss | = Kilogram-Mass |
| | × 7.233 | = Poundal |
| | × .2248 | = Pound-Force |
| Newton-Meter | × 1(7/o). | = Dyne-Centimeter |
| | × 10197.16 | = Gram-Centimeter |
| | × .1019716 | = Kilogram-Meter |
| | × .7376 | = Pound-Feet |
| Newton/Square Meter | × .5/o9869 | = Atmosphere 76cm 32F |
| | × 10. | = Bar |
| | × .0007501 | = Centimeter Hg 32F |
| | × 10. | = Dyne/Sq Centimeter |
| | × .0002953 | = Inch Hg 32F |
| | × .004015 | = Inch Water 4C |
| | × .102 | = Kilogram/Sq Meter |
| | × .001 | = Kilopascal |
| | × .02089 | = Pound/Sq Foot |
| | × .000145 | = Pound/Sq Inch |
| | × .4/o1044 | = Ton Short/Sq Foot |
| Nickel: (Ni): #28:58.69 AW: Val + 2: Sp Ht .11:8.85 gm/cc: MP 1452C:BP2900C: | | |
| (5 Cent Piece) | = 5.0 | = Gram |
| Cubic Foot | × 565. | = Pound |
| Linear Expansion: Inch | × 12.6 | = Micro-Inch/Degree F |
| Specific Gravity | = 8.9 to 0.2 | |
| Niobium: (Nb): #41:92.91 AW: | | |
| Nitrate: ($NO_3$): | = -1 | = Valence |
| Nitric: (N): | = +5 | = Valence |
| Nitric Acid | + Glycerine | = Nitroglycerine + Water |
| Nitric Oxide: Density: Liter | × 1.3388 | = Gram |
| Nitride: (N): | = -3 | = Valence |
| Nitrite: ($NO_2$): | = -1 | = Valence |
| Nitrogen: (N)# 7:14.008 AW: Val. +5: | | |
| Density: Liter | × 1.2499 | = Gram |
| Nitrogen (Atmos) 60F-30"Hg: Cubic Foot | × .07443 | = Pound |
| Pound | × 13.44 | = Cubic Feet |
| Specific Gravity | = .9722 | Air = 1 |
| Nitrogen (Chem) 60F-30"Hg: Cubic Foot | × .07406 | = Pound |
| Pound | × 13.50 | = Cubic Feet |
| Specific Gravity | = .9672 | Air = 1 |
| Nitrogen Nucleus + Helium Nucleus | = Proton | + Oxygen Nucleus |
| Nitrous Oxide: Density: Liter | × 1.9638 | = Gram |
| Noggin | × 142.06 | = Cubic Centimeter |
| | × 1.0 | = Gill (Usually) |
| | × 5.0 | = Ounce Fluid British |
| Noise: Airplane | = 120. | = Decibel |
| Conversation | = 60. | = Decibel |
| Critical Level | = 90. | = Decibel |
| Cut-Off Saw: Riveter | = 95. | = Decibel |
| Drop Hammer: Chipping Hammer | = 125. | = Decibel |

| | | |
|---|---|---|
| Noise: Heavy Traffic | = 80. | = Decibel |
| Jet Engine | = 140. | = Decibel |
| Lathes: Spinners: Looms | = 90. | = Decibel |
| Low Street Noise | = 40. | = Decibel |
| Whisper | = 20. | = Decibel |
| Nonogon: Short Radius Squared | × 3.27573 | = Area |
| Width of Side Squared | × 6.181824 | = Area |
| Norm | = 65°F | = Normal Household Temp. |
| Number Cycles × Cycles/Minute | × .000694 | = Day |
| | × 60. | = Second |
| | × .01666 | = Hour |
| Number Cycles × Cycles/Second | × .0002777 | = Hour |
| | × .01666 | = Minute |
| | × .4/o11574 | = Day |
| Number (Thread-Fiber) | × 840. | = Yard/Pound |
| Number Turn × Ampere | × 1.256637 | = Gilbert |

## O

| | | |
|---|---|---|
| Octagon: Diagonal | × .383 | = Side |
| Long × Short Diameter | × 1.082 | = Circumscribing Circumference |
| Short Diameter | × 1.082 | = Diagonal |
| | × .414 | = Side |
| Short Diameter Squared | × .828 | = Area |
| Short Radius Squared | × 3.31371 | = Area |
| Side | × 2.613 | = Diagonal |
| Width of Side Squared | × 4.828427 | = Area |
| Octahedron: Side Cubed | × .4714 | = Volume |
| Side Squared | × 3.4641 | = Total Area |
| Oersted | × .07958 | = Abampere-Turn/Centimeter |
| | × .7958 | = Ampere-Turn/Centimeter |
| | × 2.021 | = Ampere-Turn/Inch |
| | × 79.58 | = Ampere-Turn/Meter |
| | × 299774(5/o). | = ESU (Magnetizing Force) |
| | × 1.0 | = Gilbert/Centimeter |
| Ohm Absolute | × 1.0 | = Ohm (R) |
| Ohm × Ampere Squared × Hour | × 3.4128 | = Btu/Hour |
| × Ampere Squared × Minute | × .05688 | = Btu/Minute |
| × Ampere Squared × Second | × .0009480 | = Btu |
| × Ampere Squared × Second | × .2389 | = Gram-Calorie |
| × Time in Second | × Amp Squared | = Joule or Watt-Second |
| × Volt × Time | × .2389 | = Gram-Calorie Heat |
| × Wire Cross Section Sqin | = Feet Wire | × Ohm/Sqin/Ft Wire |
| × Wire Diameter Squared in Mil | = Feet Wire | × Mil-Foot |
| Ohm/Centimeter | × 1.0 | = Ohm-Centimeter |
| Ohm-Centimeter | × 393700. | = Microhm-Centimeter |
| | × 1.0 | = Ohm/Centimeter |
| | × .3937 | = Ohm-Inch |
| | × 1.0 | = Resistivity Unit |
| Ohm International | × 1.01358 | = BA Unit |
| | × 1(9/o). | = Electromagnetic Unit |
| | × .10/o1 | = Electrostatic Unit |
| | × 1.000495 | = Ohm Absolute |
| | × 1.00283 | = Ohm Legal |
| | × 1.0 | = Resistance Unit |
| | × 1.06300 | = Siemen Unit |
| Ohm/Kilo-Feet | × 3.2808 | = Ohm/Kilometer |
| Ohm/Kilometer | × .3048 | = Ohm/1000 Feet |
| Ohm/Kilo-Yard | × 1.0936 | = Ohm/Kilometer |
| Ohm/Meter | × 1.0 | = Ohm-Meter |
| Ohm-Meter | × 1(11/o). | = Abohm-Centimeter |
| | × 1(11/o). | = Abohm/Centimeter Cube |
| | × 1(8/o). | = Microhm-Centimeter |
| | × 1(8/o). | = Microhm/Centimeter Cube |
| | × 3937(4/o). | = Microhm-Inch |
| | × 3937(4/o). | = Microhm/Inch Cube |
| | × 1.0 | = Ohm/Meter |
| | × 6015(5/o). | = Ohm-Mil-Foot |

| | | |
|---|---|---|
| Ohm-Meter | × 6015(5/o). | = Ohm/Mil-Foot |
| Ohm-Meter × gm/cc | × .5/o1 | = Ohm-Meter-Gram |
| | × .5/o1 | = Ohm/Meter-Gram |
| Ohm/Meter-Gram | × 1.0 | = Ohm-Meter-Gram |
| | × 5710.0 | = Ohm-Mile-Pound |
| Ohm-Meter-Gram | × 1.0 | = Ohm/Meter-Gram |
| | × 5710. | = Ohm-Mile-Pound |
| Ohm-Meter-Gram × gm/cc | = 1(5/o). | × Abohm-Centimeter |
| | = 1(5/o). | = Abohm/Centimeter Cube |
| | = 100. | × Microhm-Centimeter |
| | = 100. | × Microhm/Centimeter Cube |
| | = 39.37 | × Microhm-Inch |
| | = 39.37 | × Microhm/Inch Cube |
| | = .5/o1 | × Ohm-Meter |
| | = .5/o1 | × Ohm/Meter |
| | = 601.5 | × Ohm-Mil-Foot |
| | = 601.5 | × Ohm/Mil-Foot |
| Ohm/Mil-Foot | × 1.0 | = Circular Mil-Ohm/Foot |
| | × 1.0 | = Ohm-Mil-Foot |
| | = 1.0 | = Unit Specific Resistance |
| Ohm-Mil-Foot | × 166.2 | = Abohm-Centimeter |
| | × 166.2 | = Abohm/Centimeter Cube |
| | × 1.0 | = Circular Mil-Ohm/Foot |
| | × .1662 | = Microhm-Centimeter |
| | × .1662 | = Microhm-Centimeter Cube |
| | × .06545 | = Microhm-Inch |
| | × .06545 | = Microhm-Inch Cube |
| | × .8/o1662 | = Ohm-Meter |
| | × 1.0 | = Ohm/Mil-Foot |
| Ohm-Mil-Foot × gm/cc | × .001662 | = Ohm-Meter-Gram |
| | × .001662 | = Ohm/Meter-Gram |
| Ohm (R) | × 1(9/o). | = Abohms |
| | × 1.0 | = Electromagnetic Unit |
| | × .6/o111262 | = Electrostatic Unit |
| | × .5/o1 | = Megohm |
| | × 1(6/o). | = Microhms |
| | × 1.0 | = Ohm Absolute |
| | × .999505 | = Ohm International |
| | × 1.0 | = Resistance Unit Practical |
| | × .11/o1112 | = Statohm |
| | × Ampere | = Volt |
| | × Ampere Squared | = Watt |
| | × Coulomb/Sec | = Volt |
| | × Mho | = 1.0 |
| | × Watt | = Volt Squared |
| Ohm (X) | × 1.0 | = Reactance Capacitive Unit |
| | × 1.0 | = Reactance Inductive Unit |
| Ohm (Z) | × Ampere | = Volt |
| | × 1.0 | = Impedance Unit Practical |
| Ohm Squared Impedance | × Mho Conductance | = Ohm Resistance |
| | × Mho Susceptance | = Ohm Reactance |
| Oil Burner (Home) | = 800 | = Watt Avg Use |
| Oil: Crude: Barrel (42) | × 5800000. | = Btu (Common) |
| | × 4800. | = Cuft Gas (Evaporated) |
| | × 273-300 | = Pound (273 Common) |
| | × 299.828 | = Pound DOE* (Std.) |
| Cubic Foot | × .1781 | = Barrel (42) |
| Gallon | × .02380952 | = Barrel (42) |
| | × 7.139 | = Pound DOE* (Std.) |
| Metric Ton | × 7.33 | = Barrel DOE* (Std.) |
| Pound | × 19344. | = Btu DOE* (Std.) |
| Oil: Fuel: Pound | × 19105. | = Btu (Fuel Comparison) |
| | × 34.7 | = Cuft Manufactured Gas |
| | × 17. | = Cuft Natural Gas |
| | × 14868421. | = Foot-Pound |
| | × 7.5 | = Horsepower-Hour US |

*U.S. Dept. of Energy

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|---|---|---|
| Oil: Fuel: Pound | × 20155263. | = Joule |
| | × 5.598 | = Kilowatt-Hour |
| | × 1.46 | = Pound Anthracite |
| | × 3.05 | = Pound Dry Wood |
| | × 19.7 | = Pound Water Evap 212F |
| Oil: Lubricating: Cubic Foot | × 57. | = Pound |
| Gallon | × 7.5 | = Pound |
| Oil: Specific Gravity @ 60F -.00035 | × °F - 60 | = spg at Temperature |
| Oil: to Lift: Height Feet × Spg | × .434 | = psi to Start Well Flowing |
| | × 8.35 | = Work in Foot-Pound |
| Oil: Ultimate Recovery: Flow and Pump | = 20 to 40% | = of Original Sand Volume |
| Oil Well: gpm/ft of Drawdown | × ft drawdown | = gpm During Drawdown |
| Specific Capacity | × 1.0 | = gpm/ft of Drawdown |
| SW USA: Foot Depth × .004 to .002 | + 74 | = °F Hole Temperature |
| Oklahoma City Heating Load | = 3830. | = Degree-Day |
| Omaha Heating Load | = 6130. | = Degree-Day |
| One-Gram | = .1 | = Gram |
| Orange | = 6470. | = Angstrom |
| | = 25.5 | = Micro-Inch |
| Osmium: (Os): #76:190.82 AW: SpHt .031:22.48 gm/cc: | | |
| Ostwald Calorie | × .3960 | = Btu |
| | × 9936.6 | = Foot-Poundal |
| | × 308.84 | = Foot-Pound-Force |
| | × 100.024 | = Gram-Calorie |
| | × 100. | = Gram-Calorie Mean |
| | × 418.73 | = Joule |
| | × .100024 | = Kilogram-Calorie |
| | × 42.6858 | = Kilogram-Force-Meter |
| | × .000116279 | = Kilowatt-Hour |
| | × 100. | = Mean Calorie |
| | × .220499 | = Pound-Calorie |
| Ounce Apothecaries - Troy | × 8.0 | = Dram Apoth |
| | × 17.55428 | = Dram Avoir |
| | × 480. | = Grain Apoth-Troy |
| | × 31.103481 | = Gram |
| | × .031103 | = Kilogram |
| | × 1.0971429 | = Ounce Avoir |
| | × 31103.481 | = Milligram |
| | × 20.0 | = Pennyweight Troy |
| | × .08333 | = Pound Apoth-Troy |
| | × .068571 | = Pound Avoir |
| | × 24. | = Scruple Apoth-Troy |
| | × .4/o3061 | = Ton Long |
| | × .4/o311034 | = Ton Metric |
| | × .4/o3429 | = Ton Short |
| Ounce Apoth-Troy/Day | × 1.29598 | = Gram/Hour |
| | × .031104 | = Kilogram/Day |
| | × .365224 | = Kilo-Ounce Troy/Year |
| | × .36 | = Milligram/Second |
| | × .041667 | = Ounce Troy/Hour |
| | × .011360 | = Ton Metric/Year |
| Ounce Apoth-Troy/Hour | × 31.1035 | = Gram/Hour |
| | × .74649 | = Kilogram/Day |
| | × 8.76581 | = Kilo-Ounce Troy/Year |
| | × 8.63986 | = Milligram/Second |
| | × 24. | = Ounce Apoth-Troy/Day |
| | × .27265 | = Ton Metric/Year |
| Ounce Apoth-Troy (1000)/Year | × 3.54823 | = Gram/Hour |
| | × .085157 | = Kilogram/Day |
| | × .98563 | = Milligram/Second |
| | × 2.73791 | = Ounce Troy/Day |
| | × .11408 | = Ounce Troy/Hour |
| | × .031104 | = Ton Metric/Year |
| Ounce Avoirdupois (Oz) | × 141.7476 | = Carat |
| | × .000625 | = Cwt |
| | × 7.29167 | = Dram Apoth |

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|---|---|---|
| Ounce Avoirdupois (Oz) | × 16.0 | = Dram Avoir |
| | × 437.5 | = Grain |
| | × 28.349527 | = Gram |
| | × .028350 | = Kilogram |
| | × 28349.527 | = Milligram |
| | × .9114583 | = Ounce Apoth-Troy |
| | × 18.22917 | = Pennyweight |
| | × .075955 | = Pound Apoth-Troy |
| | × .0625 | = Pound Avoir |
| | × 21.875 | = Scruple |
| | × .4/o279 | = Ton Long |
| | × .4/o2835 | = Ton Metric |
| | × .4/o3125 | = Ton Short |
| Ounce Avoirdupois/Gallon Liquid US | × 7.5 | = Gram/Liter |
| Ounce Avoirdupois/Hour | × 28.34953 | = Gram/Hour |
| | × .68039 | = Kilogram/Day |
| | × 7.87487 | = Milligram/Second |
| | × 1.5 | = Pound Avoir/Day |
| | × .0625 | = Pound Avoir/Hour |
| | × .24851 | = Ton Metric/Year |
| | × .27393 | = Ton Short Avoir/Year |
| Ounce Fluid British | × 28.4130 | = Cubic Centimeter |
| | × 1.732 | = Cubic Inch |
| | × .00625 | = Gallon British |
| Ounce Fluid US Apoth | × .0008392 | = Bushel US Std Struck |
| | × 29.5729 | = Cubic Centimeter |
| | × .001044 | = Cubic Foot |
| | × 1.80469 | = Cubic Inch |
| | × .4/o3868 | = Cubic Yard |
| | × 8.0 | = Dram Fluid |
| | × .0078125 | = Gallon Liquid US |
| | × 29.5729 | = Gram Water |
| | × .25 | = Gill |
| | × .03110 | = Kilogram |
| | × .0295729 | = Liter |
| | × 29.5729 | = Milliliter Water |
| | × 480. | = Minim |
| | × .0625 | = Pint Liquid US |
| | × .08333 | = Pound Apoth - Troy |
| | × .06857 | = Pound Avoir |
| | × .02686 | = Quart Dry US |
| | × .03125 | = Quart Liquid US |
| | × 24. | = Scruple Apoth-Troy |
| | × 2.0 | = Tablespoon |
| | × .4/o3061 | = Ton Long |
| | × .4/o3110 | = Ton Metric |
| | × .4/o3429 | = Ton Short |
| Ounce Fluid US/Gallon Liquid US | × 7.7 | = Cubic Centimeter/Liter |
| | × 7.5 | = Gram/Liter |
| Ounce/Square Foot | × .001002 | = Feet Water 60F |
| | × .000886 | = Inch Mercury 32F |
| | × .01203 | = Inch Water 60F |
| | × 3050. | = Milligram/Square Decimeter |
| | × .00694 | = Ounce/Square Inch |
| | × .0625 | = Pound/Square Foot |
| | × .000434 | = Pound/Square Inch |
| Ounce/Square Inch | × 118.3 | = Feet Air 62F |
| | × 87.2 | = Feet Air/Second |
| | × .1443 | = Foot Water 62F |
| | × .1272 | = Inch Mercury 70F |
| | × 2.1017 | = Inch Red Oil 70F |
| | × 1.732 | = Inch Water 62F |
| | × 144. | = Ounce/Square Foot |
| | × .0625 | = Pound/Square Inch |
| | × 9. | = Pound/Square Foot |
| Ounce Troy/Gallon Liquid US | × 8.2 | = Gram/Liter |

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|---|---|---|
| Oven: Exhaust cfm × (Exhaust °F - Intake °F) | × 1.08 | = Btu/Hr Exhaust Loss |
| Lb Load × SpHt × (Oven °F - Load °F) | × (60/Minutes to Temp) | = Btu/Hr Absorp Loss |
| To Remove Water: Pound Water Entering | × 1200. | = Btu/Hr Water Evap Heat Loss |
| 2" Walls: Sqft × (Oven °F - Ambient °F) | × 0.5 | = Btu/Hr Radiation Loss |
| 4" Walls: Sqft × (Oven °F - Ambient °F) | × 0.35 | = Btu/Hr Radiation Loss |
| Oxide: (O) | = -2 | = Valence |
| Oxygen: (O): #8:16.00 AW: Val. -2: | | |
| (60F-30"Hg) Cubic Foot | × .08463 | = Pound |
| Pound | × 11.82 | = Cubic Feet |
| Specific Gravity | = 1.1053 | Air = 1 |
| Point | = 90.19 | = Degree Kelvin |
| Density: Liter | × 1.4277 | = Gram |

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|---|---|---|
| Pace: | × 3. | = Feet |
| British | × 76.2 | = Centimeter |
| | × 30. | = Inch |
| Pail: Common Water | × 2.272 | = Gallon Liquid US |
| | × 19. | = Pound (Capacity) |
| Paint: Area to Cover in Sqft | × .001724 | = Gallon Enamel (Minimum) |
| Gallon Enamel | × 580. | = Sqft Area Covered |

Gallon Can 7" High:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 7" | = 100.00% | = 4 Qt. | = 128 oz. | 2" | = 28.60% | | = 37 oz. |
| 6" | = 85.75% | | = 110 oz. | 1.75" | = 25.00% | = 1 Qt. | = 32 oz. |
| 5.25" | = 75.00% | = 3 Qt. | = 96 oz. | 1" | = 14.30% | | = 18 oz. |
| 5" | = 71.50% | | = 92 oz. | 1/2" | = 7.15% | | = 9 oz. |
| 4" | = 57.20% | | = 73 oz. | 1/4" | = 3.58% | | = 4.5 oz. |
| 3.5" | = 50.00% | = 2 Qt. | = 64 oz. | 1/8" | = 1.79% | | = 2.25 oz. |
| 3" | = 42.80% | | = 55 oz. | 1/16" | = .89% | | = 1.125 oz. |

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|---|---|---|
| Paint: Finish Coat: Board or Plaster | = 700. | = Sqft Coverage/Gallon |
| Brick | = 450. | = Sqft Coverage/Gallon |
| Brick or Concrete | = .7 | = Man-Hr/Square/Coat |
| Calcimine Plaster | = .6 | = Man-Hr/Square/Coat |
| Clapboard | = .5 | = Man-Hr/Square/Coat |
| Clapboard | = 630. | = Sqft Coverage/Gallon |
| Enamel Trim | = .85 | = Man-Hr/Square/Coat |
| Oiling Brickwork | = .7 | = Man-Hr/Square Coat |
| Outside Woodwork | = .45 | = Man-Hr/Square/Coat |
| Polishing Floor | = 1.0 | = Man-Hr/Square/Coat |
| Plaster | = .7 | = Man-Hr/Square/Coat |
| Stenciling | = 5.0 | = Man-Hr/Square/Coat |
| Stucco or Concrete | = 500. | = Sqft Coverage/Gallon |
| Varnish Trim | = .67 | = Man-Hr/Square/Coat |
| Varnish Floor | = .5 | = Man-Hr/Square Coat |
| Wax Floor | = .5 | = Man-Hr/Square/Coat |
| Paint Spray: Water Booth: Each Front Foot | × 5.0 | = gpm (average Design) |
| Painting: Alcohol Stain on Wood | = 400. | = Sqft Coverage/Gallon |
| Aniline Stain on Wood | = 650. | = Sqft Coverage/Gallon |
| Calcimine on Plaster | = 150. | = Sqft Coverage/Gallon |
| Fill-Sand-Rub Down Trim | = 1.3 | = Man-Hr/Square/Operation |
| Floor Varnish on Wood | = 500. | = Sqft Coverage/Gallon |
| Liquid Filler on Wood | = 450. | = Sqft Coverage/Gallon |
| Oil Stain on Wood | = 550. | = Sqft Coverage/Gallon |
| Paste Filler on Wood | = 300. | = Sqft Coverage/Gallon |
| Priming: Board or Plaster | = 500. | = Sqft Coverage/Gallon |
| Brick | = 400. | = Sqft Coverage/Gallon |
| Brick or Plaster | = .9 | = Man-Hr/Square/Coat |
| Calcimine Plaster | = .3 | = Man-Hr/Square/Coat |
| Clapboard | = .55 | = Man-Hr/Square/Coat |
| Clapboard | = 450. | = Sqft Coverage/Gallon |
| Concrete | = .9 | = Man-Hr/Square/Coat |
| Filling Floor | = .7 | = Man-Hr/Square/Coat |
| Oiling Brickwork | = .9 | = Man-Hr/Square/Coat |
| Outside Woodwork | = .5 | = Man-Hr/Square/Coat |
| Stucco or Concrete | = 425. | = Sqft Coverage/Gallon |
| Shellac on Wood | = 700. | = Sqft Coverage/Gallon |
| Stain In or Out Trim or Floors | = .6 | = Man-Hr/Square/Coat |

| | | |
|---|---|---|
| Painting: Varnishing Wood | = 600. | = Sqft Coverage/Gallon |
| Water Stain on Wood | = 700. | = Sqft Coverage/Gallon |
| Palladium: (Pd): #46:106.7 AW: | | |
| Palm | × 3. | = Inch |
| Palm: British | × 7.62 | = Centimeter |
| | × 3.0 | = Inches |
| Paper: Cubic Foot | × 43 to 69 | = Pound |
| Specific Heat | = .35 | = Btu/Pound/°F |
| Paperhanging: Wall or Ceiling: Rolls | × .3 | = Man-Hr (Light-Medium Paper) |
| Rolls | × .5 | = Man-Hr (Heavy Paper) |
| Number of Rolls | × .11 | = Gallon Paste (Light-Med) |
| Number of Rolls | × .17 | = Gallon Paste (Heavy Paper) |
| Parabola: Base × Height | × .6667 | = Area |
| Paraboloid: Height x Base Width | × .39269908 | = Volume |
| Radius Squared × Height | × 1.5707 | = Volume |
| Parallelogram: Altitude | × Base | = Area |
| Parking Car: 90° Angle: 8' x 22' Slot: 24' Driveway: 3' Wheel Barrier: | | |
| 45° Angle: 8' x 20' Slot: 15' Driveway: 2' Wheel Barrier: | | |
| 30° Angle: 8' x 21' Slot: 18' Driveway: 3' Wheel Barrier: | | |
| Parsec | × 31(12/o). | = Kilometer |
| | × 19(12/o). | = Mile US Statute |
| Parts/100,000 | × .5835 | = Grain Gallon Liquid US |
| | × 10.0 | = Parts/Million |
| Parts/Million (ppm) | × .05833 | = Grain Gallon Liquid US |
| | × .001 | = Gram/Liter |
| | × .1 | = Parts/100,000 |
| | × 8.345 | = Pound/Million Gallon US |
| Parts/Million Impurity | × 100. | = % Moisture × ppm Boiler Water |
| Pcu | × 1.0 | = Pound Centigrade Heat Unit |
| | × 1.0 | = Pound-Chu |
| Pcu Hour-Square Foot-°C | × 1.0 | = Heat Transfer Coefficient |
| Pcu Pound °C | × 1.0 | = Humid Heat Unit |
| | × 1.0 | = Specific Heat Unit |
| Peck | × .25 | = Bushel |
| | × 8809.8 | = Cubic Centimeter |
| | × .31111 | = Cubic Feet |
| | × 537.605 | = Cubic Inch Std Volume |
| | × .881 | = Decaliter |
| | × 2. | = Gallon Dry US |
| | × 2.3273 | = Gallon Liquid US |
| | = 8×8×8.5 | = Inch Standard Box |
| | × 8.809581 | = Liter Dry |
| | × 9.092 | = Liter Liquid |
| | × 16. | = Pint Dry US |
| | × 8. | = Quart Dry US |
| | × 9.3092 | = Quart Liquid US |
| Peck British | × 2.0 | = Gallon British |
| | × 9.0919 | = Liter |
| Pendulum: Sq Root of (Length Accel Gravity) | = .15915 | × Time/Period |
| Pennyweight Gallon Liquid US | × .41 | = Gram Liter |
| Pennyweight Troy (dwt) | × .4 | = Dram Apoth |
| | × .8777143 | = Dram Avoir |
| | × 24. | = Grain Troy |
| | × 1.55517 | = Gram |
| | × .001555 | = Kilogram |
| | × 1555.174 | = Milligram |
| | × .054857 | = Ounce Avoir |
| | × .05 | = Ounce Troy |
| | × .00342857 | = Pound Avoir |
| | × .0041666 | = Pound Troy |
| | × 1.2 | = Scruple |
| Pentagon: Short Radius Squared | × 3.63271 | = Area |
| Width of Side Squared | × 1.720477 | = Area |
| Pentane: 30Hg60F: Gas: Boiling Point | = 557. | = Degree R |
| Critical Pressure | = 485. | = psi |
| Critical Temperature | = 840. | = Degree R |

| | | |
|---|---|---|
| Pentane: 30Hg60F:Cuft | × .0854 | = Btu |
| | × 38.19 | = Cuft Air to Burn |
| | × 4025 | = Pound |
| Density: Cuft | × .1901 | = Pound |
| Flame Propagation 1" Tube | 2.72 | = fps Max Rate |
| Inflammability | = 8. | = % Gas Upper Limit |
| | = 1.4 | = % Gas Lower Limit |
| Mean Coeff Expansion | = .00081 | = (0-50F) |
| | = .00089 | = (50-100F) |
| Melting Point | = 258.19 | = Degree R |
| Molecular Weight | = 72.10 | |
| % @ Max Flame Propagation Rate | = 2.92 | |
| Pound | × 21121. | = Btu |
| | × 153. | = Btu Heat Vaporization @ BP |
| Specific Gravity | = 2.975 | (Air = 1) |
| Specific Heat: Pound | × .402 | = Btu |
| Liquid: Degree API | = 92.7 | |
| Gallon | × 110841. | = Btu |
| | × 110000. | = Btu Heat Vaporization @ BP |
| | × 27.67 | = Cuft |
| | × 5.25 | = Pound |
| Pound | × 20948. | = Btu |
| | × 5.26 | = Cuft |
| Specific Gravity | = .631 | |
| Vapor Pressure | = 16. | = psi Gage 60F |
| | = 8.6 | = psi Gage 80F |
| | = .9 | = psi Gage 100F |
| | = 7.8 | = psi Gage 120F |
| Perch Linear | × 16.5 | = Feet |
| | × 5.0292 | = Meter |
| | × 1.0 | = Pole or Rod |
| | × 5.5 | = Yard |
| Masonry | × 24.75 | = Cubic Foot |
| Volume | × 24.75 | = Cubic Foot |
| | × .70085 | = Cubic Meter |
| | = 16.5×1.5×1 | = Dimension in Feet |
| Perm (Water Vapor Permeability) × 1.0 = Grain Water/Hr/Sqft/Inch Hg Press Differential | | |
| Perm-Inch (Water Vapor Passing thru a Material) | × 1.0 | = Grain/Hr/Sqft/Inch |
| Permanganate: $Mno_4$: | = -1 | = Valence |
| Permability: Cuft/Day/Sqft Sand/psf Pressure Diff/Foot Sand Thickness = Darcy | | |
| Pes | × 1.0 | = Foot |
| Pferde Starke | × 1.0 | = Cheval Vapeur |
| | × 1.0 | = Metric Horsepower |
| Pfund (Austria-Hungary) | × 1.2346 | = Pound Avoir |
| (Germany) | × 500. | = Gram |
| pH Number = -log $H^+$ = log 1/$H^+$ = log $H^+$ ion in Mole/Liter = log 1/($H^+$ ion gram - mols/Liter @ 71.6F) | | |
| Phon | × 1.0 | = Sound Loudness Unit |
| Phosphate: Pebble: Cubic Foot | × 100. | = Pound |
| Rock: Cubic Foot | × 85. | = Pound |
| Phosphate: $PO_4$: | = -3 | = Valence |
| Phosphide: P: | = -3 | = Valence |
| Phospher Bronze: Cubic Foot | × 549.35 | = Pound |
| Phosphoric: P: | = +5 | = Valence |
| Phosphorous: P: | = +3 | = Valence |
| Phosphorus:(P):#15:30.98 AW: | | |
| Phot | × 929. | = Footcandle |
| | × 1.0 | = Lumen/Square Centimeter |
| | × 10000. | = Lux |
| | × 1000. | = Milliphot |
| Pi ($\pi$) | × 1. | = 3.14159265358979323846 |
| | × 2. | = 6.283185531 |
| | × 3. | = 9.42477796 |
| | × 4. | = 12.56637061 |
| | × 5. | = 15.70796327 |
| | × 6. | = 18.84955592 |

| | | |
|---|---|---|
| Pi ($\pi$) | × 7. | = 21.99114857 |
| | × 8. | = 25.13274123 |
| | × 9. | = 28.27433388 |
| | × $\pi$ | = 9.869604401 = $\pi^2$ |
| Pi ($\pi$) Values: | = 1/$\pi$ | = .3183099 = Reciprocal |
| | = 2/$\pi$ | = .63662 |
| | = 3/$\pi$ | = .95493 |
| | = 4/$\pi$ | = 1.27324 |
| | = 5/$\pi$ | = 1.59155 |
| | = 6/$\pi$ | = 1.90986 |
| | = 7/$\pi$ | = 2.22817 |
| | = 8/$\pi$ | = 2.54648 |
| | = 9/$\pi$ | = 2.86479 |
| | = 12/$\pi$ | = 3.81972 |
| | = 360/$\pi$ | = 114.5915 |
| | = $\pi$/2 | = 1.57096 |
| | = $\pi$/3 | = 1.047197 |
| | = $\pi$/4 | = .7853982 |
| | = $\pi$/6 | = .523599 |
| | = $\pi$/12 | = .261799 |
| | = $\pi$/64 | = .049087 |
| | = $\pi$/360 | = .0087266 |
| | = 1/4($\pi$) | = .07957747 |
| | = 1/$\pi^2$ | = .10132116 |
| | = 4/3($\pi$) | = 4.18879020 |
| | = Log $\pi$ | = .49714987 |
| | = Log $\pi$/4 | = 9.89509-10 |
| Square Root of $\pi$ | | = 1.77245385 |
| Square Root of 1/$\pi$ | | = .564189 |
| Square Root of $\pi$/4 | | = .886226 |
| Square Root of 4/$\pi$ | | = 1.128379167 |
| Cube Root of 6/$\pi$ | | = 1.240700982 |
| Log Square Root of $\pi$ | | = .248575 |
| Log Square Root of $\pi$/4 | | = 9.947545-10 |
| Pic | × 22.83 | = Inch US |
| Picul | × 135. | = Pound Avoir (Avg) |
| Pied | × .325 | = Meter |
| | × 12. | = Paris Inch |
| Pile Driving & Set Braces: | (Feet Depth × .001) + .01 | = Man-Hour/Sqft of Area |
| Pile Pulling & Remove Braces: | (Feet Depth × .0002) + .002 | = Man-Hour/Sqft of Area |
| Pinch | × .125 | = Teaspoon (or Less) |
| Pint Dry US | × .015625 | = Bushel |
| | × 550.6136 | = Cubic Centimeter |
| | × .01945 | = Cubic Feet |
| | × 33.6003125 | = Cubic Inch |
| | × 2. | = Cup |
| | × .125 | = Gallon Dry US |
| | × .14545 | = Gallon Liquid US |
| | × .550599 | = Liter |
| | × .0625 | = Peck |
| | × .5 | = Quart Dry US |
| | × .58182 | = Quart Liquid US |
| | × .05506 | = Decaliter |
| Pint Liquid British | × .56825 | = Liter |
| | × 1.20094 | = Pint Liquid US |
| Pint Liquid US (pt) | × .003968 | = Barrel (31.5) |
| | × 473.1798 | = Cubic Centimeter |
| | × .01671 | = Cubic Feet |
| | × 28.875 | = Cubic Inch |
| | × 2. | = Cup |
| | × .10742 | = Gallon Dry US |
| | × .125 | = Gallon Liquid US |
| | × 4. | = Gill |
| | × .473167 | = Liter |
| | × 473.167 | = Milliliter |
| | × 16. | = Ounce Fluid US |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Pint Liquid US (pt) | × .5 | = Quart Liquid US |
| | × .42968 | = Quart Dry US |
| | × 128. | = Dram Fluid |
| | × 7680. | = Minim |
| Pipe (Liquid Container) | × 4. | = Barrel (31.5) |
| | × 1. | = Butt |
| | × 2. | = Hogshead |
| | × 126. | = Gallon Liquid US |
| | × 4032. | = Gill |
| | × 1008. | = Pint Liquid US |
| | × 1.5 | = Puncheon |
| | × 504. | = Quart Liquid US |
| | × .5 | = Tun |
| Pipe: Angle Valve: Diam Inch | × 14.0 | = Equiv Feet of Pipe |
| Area Sqin × Feet Filled | = 808.5 | × Barrel (42) (Sec Casing) |
| × Feet Long | × .001237 | = Barrel (42) |
| × 100 Ft Long | × .1237 | = Barrel (42) |
| Base Area | × Height | = Volume (See Tubing) |
| Base Perimeter | × Height | = Lateral Area |
| Circumference Squared × Length | × .07957747 | = Volume (See Cylinder) |
| Diameter Foot × Foot Long | × 3.1416 | = Sqft Lateral Area |
| | × 452.389248 | = Sqin Lateral Area |
| Diameter Foot × Inch Long | × .2617989 | = Sqft Lateral Area |
| | × 37.69908 | = Sqin Lateral Area |
| Diameter × Length | × 3.1416 | = Lateral Area |
| Diameter Inch × Foot Long | × .2617989 | = Sqft Lateral Area |
| | × 37.69908 | = Sqin Lateral Area |
| Diameter Inch × Inch Long | × .021816 | = Sqft Lateral Area |
| | × 3.1416 | = Sqin Lateral Area |
| Diameter Squared Foot × Foot Long | × .139885 | = Barrel (42) |
| | × .785398 | = Cubic Foot |
| | × 1357.168 | = Cubic Inch |
| | × 5.87517 | = Gallon US |
| | × .74613 | = Sack Cement |
| Diameter Squared Foot × Inch Long | × .01165 | = Barrel (42) |
| | × .06542 | = Cubic Foot |
| | × 113.09734 | = Cubic Inch |
| | × .489597 | = Gallon US |
| | × .06206 | = Sack Cement |
| Diameter Squared × Length | × .7854 | = Cubic Volume |
| Diameter Squared Inch × Feet Filled | = 1029.4 | × Barrel (42) |
| Diameter Squared Inch × Foot Long | × .0009714234 | = Barrel (42) |
| × 100 Foot | × .0971428 | = Barrel (42) |
| × 1000 Foot | × .971428 | = Barrel (42) |
| × Foot Long | × .00545412 | = Cubic Foot |
| | × 9.4247784 | = Cubic Inch |
| | × .0408 | = Gallon US |
| | × .2652 | = Pound Crude Oil Weight |
| | × .34 | = Pound Water Weight |
| | × .005177 | = Sack Cement |
| Pipe: Diam Squared Inch × Ft Fill-up × Hour | × .023312 | = Bbl(42)/Day Est Production |
| Diameter Squared Inch × Ft/Min | × .00545 | = Cubic Feet/Second |
| | × .0408 | = Gallon Water/Minute |
| × Ft/Sec | × .327 | = Cubic Feet/Minute |
| | × 2.44798 | = Gallon Water/Minute |
| Diameter Squared Inch × Inch Long | × .4/o8095195 | = Barrel (42) |
| | × .00045451 | = Cubic Foot |
| | × .785398 | = Cubic Inch |
| | × .0034 | = Gallon US |
| | × .000431 | = Sack Cement |
| Pipe: Ell 45°: Diam Inch | × 1.2 | = Equiv Feet of Pipe |
| Feet/Second Squared × Foot Long | × .0003105 | = Ft Diam × Ft Hd Frict Loss |
| | × .003726 | = In Diam × Ft Hd Frict Loss |
| Ft Head Friction Loss × Diam Foot | × 3220.20 | = fps Squared × Ft Long |
| × Diam Inch | × 268.35 | = fps Squared × Ft Long |
| Gate Valve: Diam Inch | × .5 | = Equiv Feet of Pipe |

| | | |
|---|---|---|
| Pipe: Globe Valve: Diam Inch | × 26. | = Equiv Feet of Pipe |
| Inch ID × fps | × .32724 | = Cuft/min (Air) |
| Inch ID Squared × Inch Thick | × .8 | = Section Modulus |
| Inch Wall Thickness × psi Tensile | × 2. | = Inch OD × psi Burst Internal |
| Inside Radius × Length | × 6.28318 | = Area Internal |
| Long Sweep Ell: Diam Inch | × 1.8 | = Equiv Feet of Pipe |
| Med. Sweep Ell: Diam Inch | × 2.3 | = Equiv Feet of Pipe |
| OD Minus Thickness × Thickness | × 10.68 | = Pound Weight/Foot |
| OD Minus Thickness × Thickness | × 28.2 | = Ton Wgt/Mile |
| OD Minus Thickness × Thick × Length | × 3.1416 | = Cubic Inch of Metal (All Inch) |
| Outside Diameter × Thickness | × 3.1416 | = Sqin Metal Area: Section |
| Outside Radius × Length | × 6.28318 | = Area External |
| Radius × Length | × 6.28318 | = Lateral Area |
| Radius Squared × Length | × 3.1416 | = Volume |
| Return Bend: Diam Inch | × 6.0 | = Equiv Feet of Pipe |
| Square Ell: Diam Inch | × 5.5 | = Equiv Feet of Pipe |
| Standard Ell: Diam Inch | × 2.5 | = Equiv Feet of Pipe |
| Standard Tee: Diam Inch | × 6.0 | = Equiv Feet of Pipe |
| Swing Check: Diam Inch | × 7. | = Equiv Feet of Pipe |
| Screw: Number Joints × (Inch Diam | × .1) + 2.3 | = Inch Make-Up Loss |
| Pipe: Lap Weld: Inch Wall Thickness | × 1(5/o). | = psi Bursting × Inch OD |
| A-Smls: Inch Wall Thickness | × 1(5/o). | = psi Bursting × Inch OD |
| B-Smls: Inch Wall Thickness | × 12(4/o). | = psi Bursting × Inch OD |
| C-Smls: Inch Wall Thickness | × 15(4/o). | = psi Bursting × Inch OD |
| Actual Stress psi | × Safety Factor | = psi Ultimate Strength |
| Pipe: Lap Weld: (Inch Thick/Inch OD) Cubed | × 50210000. | = psi External-Collapse: -580 psi |
| × 86700 | - 1388 | = psi External-Collapse: +580 psi |
| Grade C: (Inch Thick/Inch OD) × 119690 | - 1915 | = psi External - Collapse |
| Grade D: (Inch Thick/Inch OD) × 151350 | - 2422 | = psi External - Collapse |
| Pipe: Steel: 1/2" (180F Hot Water): Heat Loss | = .546 | = Btu/Hr/Ft/°F-20 |
| 1" (180F Hot Water): Heat Loss | = .819 | = Btu/Hr/Ft/°F-20 |
| 2" (180F Hot Water): Heat Loss | = 1.412 | = Btu/Hr/Ft/°F-20 |
| 1" Surface Area | × 1.25 | = Equivalent Direct Radiation |
| Piston: Diameter Squared in Inch | × 4. | = Gallon/Minute (Approx.) |
| Square Root of Gallon/Minute | × .5 | = Diameter of Piston |
| Plaster: Brown Coat: Lime Plaster: Sqft | × .08 | = Mason-Hr (On Brick) |
| | × .075 | = Mason-Hr (On Scratch) |
| | × .075 | = Mason-Hr (On Plast. Board) |
| Port. Cement: Sqft | × .095 | = Mason-Hr (On Brick) |
| | × .09 | = Mason-Hr (On Scratch) |
| Pat. Plaster: Sqft | × .075 | = Mason-Hr (On Brick) |
| | × .07 | = Mason-Hr (On Scratch) |
| | × .07 | = Mason-Hr (On Plast. Board) |
| Finish Coat: Caen Stone: Sqft | × .4 | = Mason-Hr (On Brown Coat) |
| Floated Sand: Sqft | × .11 | = Mason-Hr (On Brown Coat) |
| Hard Finish: Sqft | × .095 | = Mason-Hr (On Brown Coat) |
| Keene Cement: Sqft | × .125 | = Mason-Hr (On Brown Coat) |
| Sanded White: Sqft | × .1 | = Mason-Hr (On Brown Coat) |
| White Skim: Sqft | × .085 | = Mason-Hr (On Brown Coat) |
| Hoisting: Number of Stories | × .0015 | = Elevator-Hour/Square Yard |
| Pound of Cement | × .05 | = Pound of Lime (Lean) |
| | × .1 | = Pound of Lime (Rich) |
| Ruling to Imitate Tile: Sqft | × .0025 | = Laborer-Hour |
| | × .1 | = Mason-Hr(Caen Stone) |
| | × .04 | = Mason-Hr(Keenes) |
| | × .03 | = Mason-Hr(Port. Cement) |
| | × .03 | = Mason-Hr(Lime Plaster) |
| Running Ornamental: Sqft | × .08 | = Laborer-Hr |
| | × .24 | = Mason-Hr (Keenes) |
| | × .2 | = Mason-Hr (Plaster) |
| | × .48 | = Mason-Hr (Portland) |
| Plaster: Scratch: Portland Cement: Sqft | × .05 | = Mason-Hr (On Brick) |
| | × .07 | = Mason-Hr (On Metal Lath) |
| | × .055 | = Mason-Hr (On Wood Lath) |
| Patent or Lime: Sqft | × .045 | = Mason-Hr (On Brick) |
| | × .055 | = Mason-Hr (On Concrete) |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Plaster: Scratch: Patent or Lime: Sqft | × .06 | = Mason-Hr (On Metal Lath) |
| | × .05 | = Mason-Hr (On Wood Lath) |
| Specific Heat | = .20 | = Btu/Pound/°F |
| Stucco Finish: Square Yard | × .12 | = Helper-Hr(Pebble Dash) |
| | × .11 | = Helper-Hr(Broomed) |
| | × .09 | = Helper-Hr(Plain) |
| | × .11 | = Helper-Hr(Sand Float) |
| | × .11 | = Helper-Hr(Slap Dash) |
| | × .15 | = Mason-Hr(Broomed) |
| | × .16 | = Mason-Hr(Pebble Dash) |
| | × .12 | = Mason-Hr(Plain) |
| | × .15 | = Mason-Hr(Sand Float) |
| | × .15 | = Mason-Hr(Slap Dash) |
| Plasterboard: 12" Nailing: Square Yard | × .21" + .04 | = Man-Hour Applying |
| 16" Nailing: Square Yard | × .21" + .03 | = Man-Hour Applying |
| Square Yard | × 361" + 4.5 | = Pound Weight (t"=Thick Inch) |
| Plastic: Specific Heat | = .35 | = Btu/Pound/°F |
| Plating: Aluminum: Amp × Second | × .4/o939 | = Gram Deposited at Cathode |
| Chromium: Amp × Second | × .0001796 | = Gram Deposited at Cathode |
| Copper: Amp × Second | × .0003294 | = Gram Deposited at Cathode |
| Gold: Amp × Second | × .0006812 | = Gram Deposited at Cathode |
| Hydrogen: Amp × Second | × .4/o1045 | = Gram Deposited at Cathode |
| Nickel: Amp × Second | × .000304 | = Gram Deposited at Cathode |
| Oxygen: Amp × Second | × .4/o8291 | = Gram Deposited at Cathode |
| Silver: Amp × Second | × .00118 | = Gram Deposited at Cathode |
| Oz/Sqft/Mil Thickness | × 12. | = Spg of Metal |
| Platinum (Pt): #78:195.23 AW: | | |
| Plowing: Average Soil: Cubic Yard | × .029 | = Man-Hr (2-Horse Plow) |
| | × .0135 | = Man-Hr (Tractor Plow) |
| Heavy Soil: Cubic Yard | × .03 | = Man-Hr (2-Horse Plow) |
| | × .0145 | = Man-Hr(Tractor Plow) |
| Soft Clay: Cubic Yard | × .05 | = Man-Hr (2-Horse Plow) |
| | × .0225 | = Man-Hr(Tractor Plow) |
| Stiff Clay: Cubic Yard | × .029 | = Man-Hr(Tractor Plow) |
| Top Soil: Cubic Yard | × .025 | = Man-Hr (2-Horse Plow) |
| | × .0115 | = Man-Hr(Tractor Plow) |
| Plumbing: Branches Feet | × .09d" + .04 | = Fitter + Helper-Hour |
| CI Subsurface Drain: Hour | × (15/d") + 1. | = Feet (Roughing) |
| CI Soil and Vent Stack: Hour | × (10/d") + 3. | = Feet |
| WI Soil and Vent Stack: Hour | × (8/d") + 2. | = Feet |
| 1/2, 2"GI Water Pipe: Hour | × (3/d") + 6. | = Feet (Roughing) |
| 2-1/2, 4" GI Water Pipe: Hour | × (10/d") + 1. | = Feet (Roughing) |
| Kitchen Sink: Roughing | = 10. | = Fitter and Helper-Hour |
| Kitchen Sink: Installing | = 5. | = Fitter and Helper-Hour |
| Mains on Ceiling: Feet | × .055d" + .03 | = Fitter and Helper-Hour |
| Pair Wash Trays: Roughing | = 12. | = Fitter and Helper-Hour |
| Pair Wash Trays: Installing | = 10. | = Fitter and Helper-Hour |
| 3-Piece Bath: Roughing | = 20. | = Fitter and Helper-Hour |
| Installing | = 15. | = Fitter and Helper-Hour |
| Pipe Size in Inch | × 1.5 | = Pound Lead/Joint CI Pipe |
| | × .05 | = Pound Oakum/Joint CI Pipe |
| Risers: Feet | × .04d" + .05 | = Fitter and Helper-Hour |
| Plunger Pump: (Diameter in Inch | × .554) - .437 | = K (Use Below) |
| Stroke in Inches (S") | × spm × K | = Barrel (42)/Day |
| Strokes/Minute (spm) | × S" × K | = Barrel (42)/Day |
| pOH Number | = log 1/OH- | |
| Point | × .035278 | = Centimeter |
| | × .0138888 | = Inch |
| Poise | × 100. | = Centipoise |
| | × 1. | = Dyne-Second/Sq Centimeter |
| | × 10000. | = Dyne-Second/Sq Meter |
| | × 6.45 | = Dyne-Second/Sq Inch |
| | × 929.03 | = Dyne-Second/Sq Foot |
| | × 1. | = Gram-Mass/Centimeter-Second |
| | × 60. | = Gram-Mass/Centimeter-Minute |
| | × 3600. | = Gram-Mass/Centimeter-Hour |

| | | |
|---|---|---|
| Poise | × 980.7 | = Gram-Mass-Second/Sqcm |
| | × .001 | = Kilogram-Mass/Centimeter-Second |
| | × .1 | = Kilogram-Mass/Meter-Second |
| | × 6. | = Kilogram-Mass/Meter-Minute |
| | × 360. | = Kilogram-Mass/Meter-Hour |
| | × .010194 | = Kilogram-Force-Second/Sq Meter |
| | × .02247 | = Pound-Force-Second/Sq Meter |
| | × .4/o145 | = Pound-Force-Second/Sq Inch |
| | × .00209 | = Pound-Force-Second/Sq Foot |
| | × .6/o242 | = Pound-Force-Minute/Sq Inch |
| | × .4/o348 | = Pound-Force-Minute/Sq Foot |
| | × .4/o2204 | = Pound-Mass/Centimeter-Second |
| | × .0056 | = Pound-Mass/Inch-Second |
| | × .0672043 | = Pound-Mass/Foot-Second |
| | × .001322 | = Pound-Mass/Centimeter-Minute |
| | × .336 | = Pound-Mass/Inch-Minute |
| | × 4.032 | = Pound-Mass/Foot-Minute |
| | × .007837 | = Pound-Mass/Centimeter-Hour |
| | × 20.16 | = Pound-Mass/Inch-Hour |
| | × 241.935 | = Pound-Mass/Foot-Hour |
| | × .4/o2204 | = Poundal-Second/Sq Centimeter |
| | × .0056 | = Poundal-Second/Sq Inch |
| | × .06720 | = Poundal-Second/Sq Foot |
| | × .001322 | = Poundal-Minute/Sq Centimeter |
| | × .336 | = Poundal-Minute/Sq Inch |
| | × 4.032 | = Poundal-Minute/Sq Foot |
| | × .007837 | = Poundal-Hour/Sq Centimeter |
| | × 20.16 | = Poundal-Hour/Sq Inch |
| | × 241.93 | = Poundal-Hour/Sq Foot |
| | × Rhe | = 1.0 |
| Pole | × 16.5 | = Feet |
| | × 5.0292 | = Meter |
| | × 1. | = Rod |
| | × 5.5 | = Yard |
| Polygon: Irregular: Divide into Triangles. Compute. Add Areas for Total Area. | | |
| Regular: Apothem × Perimeter | × .5 | = Area |
| Radius Squared × Sides | × tan 180/Sides | = Area |
| Ponce | × 2.71 | = Centimeter |
| | × 1. | = French Inch |
| Poncelet | × 3346. | = Btu/Hour |
| | × 55.77948 | = Btu/Minute |
| | × .92957 | = Btu/Second |
| | × 1(7/o). | = Erg/Second |
| | × 723.3 | = Foot-Pound/Second |
| | × 1.33333 | = Horsepower Metric |
| | × 1.31509 | = Horsepower US |
| | × .23425 | = Kilogram-Calorie/Second |
| | × 100. | = Kilogram-Meter/Second |
| | × .9806 | = Kilowatt |
| | × 980.597 | = Watt |
| Poncelet-Hour | × 2603880. | = Foot-Pound |
| | × 360000. | = Kilogram-Meter-Hour |
| Ponds: Spray Pound Water Sprayed/Hour | × .005 | = Sqft Pond Area Needed |
| Sqft Pond Area Needed | × 200. | = Pound Water Sprayed/Hour |
| Nozzle Pressure Should Be | = 7 - 10 | = psi |
| Maximum Pond Depth | = 3 | = Feet |
| Pood | × 1000. | = Cubic Inch |
| | × 40. | = Funt |
| | × 3.6 | = Gallon British |
| | × 4.32 | = Gallon US |
| | × 16.3805 | = Kilogram |
| | × 36.112 | = Pound Avoir US |
| Porcelain: Specific Heat | = .26 | = Btu/Pound/°F |
| Porosity of Oil Sand in Percent | × 77.578 | = Barrel (42) Acre-Foot |
| Potassium Chloride + Sodium Nitrate | = Potassium Nitrate + Sodium Chloride | |

Potassium: (K): #19.39.096 AW: Val. + 1. SpHt .177: .87 gm/cc MP 63.5C:BP 774C.

| | | |
|---|---|---|
| Potassium: Density: Liter | × 1.744 | = Gram |
| Pottle | × 2.273 | = Cubic Decimeter |
| | × 2.0 | = Quart Liquid British |
| Poundal | × 13825.5 | = Dyne |
| | × 14.0981 | = Gram |
| | × .0140981 | = Kilogram-Force |
| | × .001383 | = Joule/Centimeter |
| | × .1383 | = Joule/Meter |
| | × .1383 | = Newton |
| | × .0310832 | = Pound-Force |
| Poundal/Cubic Inch | × 843.683 | = Dyne/Cubic Centimeter |
| | × .860378 | = Gram/Cubic Centimeter |
| Poundal-Hour/Square Centimeter | × 12700. | = Centipoise |
| | × 127. | = Dyne-Second/Sq Centimeter |
| | × 1270000. | = Dyne-Second/Sq Meter |
| | × 820. | = Dyne-Second/Sq Inch |
| | × 118500. | = Dyne-Second/Sq Foot |
| | × 127. | = Gram-Mass/Centimeter-Second |
| | × 7650. | = Gram-Mass/Centimeter-Minute |
| | × 460000. | = Gram-Mass/Centimeter-Hour |
| | × .127 | = Kilogram-Mass/Centimeter-Second |
| | × 12.7 | = Kilogram Mass/Meter-Second |
| | × 765. | = Kilogram-Mass/Meter-Minute |
| | × 46000. | = Kilogram-Mass/Meter-Hour |
| | × 1.3 | = Kilogram-Force-Second/Sq Meter |
| | × 127. | = Poise |
| | × 2.87 | = Pound-Force-Second/Sq Meter |
| | × .00185 | = Pound-Force-Second/Sq Inch |
| | × .266 | = Pound-Force-Second/Sq Foot |
| | × .4/o309 | = Pound-Force-Minute/Sq Inch |
| | × .00444 | = Pound-Force-Minute/Sq Foot |
| | × .00281 | = Pound-Mass/Centimeter-Second |
| | × .715 | = Pound-Mass/Inch-Second |
| | × 8.57 | = Pound-Mass/Foot-Second |
| | × .168 | = Pound-Mass/Centimeter-Minute |
| | × 42.9 | = Pound-Mass/Inch-Minute |
| | × 515. | = Pound-Mass/Foot-Minute |
| | × 1.0 | = Pound-Mass/Centimeter-Hour |
| | × 2570. | = Pound-Mass/inch-Hour |
| | × 30900. | = Pound-Mass/Foot-Hour |
| | × .00281 | = Poundal-Second/Sq Centimeter |
| | × .715 | = Poundal-Second/Sq Inch |
| | × 8.57 | = Poundal-Second/Sq Foot |
| | × .168 | = Poundal-Minute/Sq Centimeter |
| | × 42.9 | = Poundal-Minute/Sq Inch |
| | × 515. | = Poundal-Minute/Sq Foot |
| | × 2570. | = Poundal-Hour/Sq Inch |
| | × 30900. | = Poundal-Hour/Sq Foot |
| Poundal-Hour/Square Foot | × .414 | = Centipoise |
| | × .00414 | = Dyne-Second/Sq Centimeter |
| | × 41.4 | = Dyne-Second/Sq Meter |
| | × .0267 | = Dyne-Second/Sq Inch |
| | × 3.84 | = Dyne-Second/Sq Foot |
| | × .00414 | = Gram-Mass/Centimeter-Second |
| | × .248 | = Gram-Mass/Centimeter-Minute |
| | × 14.9 | = Gram-Mass/Centimeter-Hour |
| | × .5/o414 | = Kilogram-Mass/Centimeter-Second |
| | × .000414 | = Kilogram-Mass/Meter-Second |
| | × .0248 | = Kilogram-Mass/Meter-Minute |
| | × 1.49 | = Kilogram-Mass/Meter-Hour |
| | × .4/o421 | = Kilogram-Force-Second/Sq Meter |
| | × .00414 | = Poise |
| | × .4/o93 | = Pound-Force-Second/Sq Meter |
| | × .7/o6 | = Pound-Force-Second/Sq Inch |
| | × .5/o864 | = Pound-Force-Second/Sq Foot |
| | × .8/o1 | = Pound-Force-Meter/Sq Inch |

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|---|---|---|
| Poundal-Hour/Square Foot | × .6/o144 | = Pound-Force-Meter/Sq Foot |
| | × .7/o911 | = Pound-Mass/Centimeter-Second |
| | × .4/o231 | = Pound-Mass/Inch-Second |
| | × .3/o278 | = Pound-Mass/Foot-Second |
| | × .5/o545 | = Pound-Mass/Centimeter-Minute |
| | × .00139 | = Pound-Mass/Inch-Minute |
| | × .0166 | = Pound-Mass/Foot-Minute |
| | × .4/o324 | = Pound-Mass/Centimeter-Hour |
| | × .0832 | = Pound-Mass/Inch-Hour |
| | × 1.0 | = Pound-Mass/Foot-Hour |
| | × .7/o911 | = Poundal-Second/Sq Centimeter |
| | × .4/o231 | = Poundal-Second/Sq Inch |
| | × .3/o278 | = Poundal-Second/Sq Foot |
| | × .5/o545 | = Poundal-Minute/Sq Centimeter |
| | × .00139 | = Poundal-Minute/Sq Inch |
| | × .0166 | = Poundal-Minute/Sq Foot |
| | × .4/o324 | = Poundal-Hour/Sq Centimeter |
| | × .0832 | = Poundal-Hour/Sq Inch |
| Poundal-Hour/Square Inch | × 4.96 | = Centipoise |
| | × .0496 | = Dyne-Second/Sq Centimeter |
| | × 496. | = Dyne-Second/Sq Meter |
| | × .32 | = Dyne-Second/Sq Inch |
| | × 46.1 | = Dyne-Second/Sq Foot |
| | × .0496 | = Gram-Mass/Centimeter-Second |
| | × 2.98 | = Gram-Mass/Centimeter-Minute |
| | × 178. | = Gram-Mass/Centimeter-Hour |
| | × .4/o496 | = Kilogram-Mass/Centimeter-Second |
| | × .00496 | = Kilogram-Mass/Meter-Second |
| | × .298 | = Kilogram-Mass/Meter-Minute |
| | × 17.8 | = Kilogram-Mass/Meter-Hour |
| | × .3/o505 | = Kilogram-Force-Second/Sq Meter |
| | × .0496 | = Poise |
| | × .2/o111 | = Pound-Force-Second/Sq Meter |
| | × .6/o72 | = Pound-Force-Second/Sq Inch |
| | × .000103 | = Pound-Force-Second/Sq Foot |
| | × .7/o12 | = Pound-Force-Meter/Sq Inch |
| | × .5/o172 | = Pound-Force-Meter/Sq Foot |
| Poundal-Hour/Square Inch | × .5/o109 | = Pound-Mass/Centimeter-Second |
| | × .3/o278 | = Pound-Mass/Inch-Second |
| | × .00333 | = Pound-Mass/Foot-Second |
| | × .4/o656 | = Pound-Mass/Centimeter-Minute |
| | × .0167 | = Pound-Mass/Inch-Minute |
| | × .2 | = Pound-Mass/Foot-Minute |
| | × .000389 | = Pound-Mass/Centimeter-Hour |
| | × 1.0 | = Pound-Mass/Inch-Hour |
| | × 12. | = Pound-Mass/Foot-Hour |
| | × .5/o109 | = Poundal-Second/Sq Centimeter |
| | × .3/o278 | = Poundal-Second/Sq Inch |
| | × .00333 | = Poundal-Second/Sq Foot |
| | × .4/o656 | = Poundal-Minute/Sq Centimeter |
| | × .0167 | = Poundal-Minute/Sq Inch |
| | × .2 | = Poundal-Minute/Sq Foot |
| | × .000389 | = Poundal-Hour/Sq Centimeter |
| | × 12. | = Poundal-Hour/Sq Foot |
| Poundal/Inch | × 5443.11 | = Dyne/Centimeter |
| | × 5.55081 | = Gram/Centimeter |
| | × .0310832 | = Pound/Inch |
| Poundal-Minute/Square Centimeter | × 75700. | = Centipoise |
| | × 757. | = Dyne-Second/Sq Centimeter |
| | × 7570000. | = Dyne-Second/Sq Meter |
| | × 4870. | = Dyne-Second/Sq Inch |
| | × 702000. | = Dyne-Second/Sq Foot |
| | × 757. | = Gram-Mass/Centimeter-Second |
| | × 45400. | = Gram-Mass/Centimeter-Minute |
| | × 2720000. | = Gram-Mass/Centimeter-Hour |
| | × .757 | = Kilogram-Mass/Centimeter-Second |

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|---|---|---|
| Poundal-Minute/Square Centimeter | × 75.7 | = Kilogram-Mass/Meter-Second |
| | × 4540. | = Kilogram Mass/Meter-Minute |
| | × 272000. | = Kilogram-Mass/Meter-Hour |
| | × 7.7 | = Kilogram-Force-Second/Sq Meter |
| | × 757. | = Poise |
| | × 17. | = Pound-Force-Second/Sq Meter |
| | × .011 | = Pound-Force-Second/Sq Inch |
| | × 1.58 | = Pound-Force-Second/Sq Foot |
| | × .3/o183 | = Pound-Force-Minute/Sq Inch |
| | × .0265 | = Pound-Force-Minute/Sq Foot |
| Poundal-Minute/Square Centimeter | × .0166 | = Pound-Mass/Centimeter-Second |
| | × 4.23 | = Pound-Mass/Inch-Second |
| | × 50.8 | = Pound-Mass/Foot-Second |
| | × 1.0 | = Pound-Mass/Centimeter-Minute |
| | × 254. | = Pound-Mass/Inch-Minute |
| | × 3050. | = Pound-Mass/Foot-Minute |
| | × 5.92 | = Pound-Mass/Centimeter-Hour |
| | × 15200. | = Pound-Mass/Inch-Hour |
| | × 183000. | = Pound-Mass/Foot-Hour |
| | × .0166 | = Poundal-Second/Sq Centimeter |
| | × 4.23 | = Poundal-Second/Sq Inch |
| | × 50.8 | = Poundal-Second/Sq Foot |
| | × 254. | = Poundal-Minute/Sq Inch |
| | × 3050. | = Poundal-Minute/Sq Foot |
| | × 5.92 | = Poundal-Hour/Sq Centimeter |
| | × 15200. | = Poundal-Hour/Sq Inch |
| | × 183000. | = Poundal-Hour/Sq Foot |
| Poundal-Minute/Square Foot | × 24.7 | = Centipoise |
| | × .247 | = Dyne-Second/Sq Centimeter |
| | × 2470. | = Dyne-Second/Sq Meter |
| | × 1.6 | = Dyne-Second/Sq Inch |
| | × 230. | = Dyne-Second/Sq Foot |
| | × .247 | = Gram-Mass/Centimeter-Second |
| | × 14.9 | = Gram-Mass/Centimeter-Minute |
| | × 890. | = Gram-Mass/Centimeter-Hour |
| | × .000247 | = Kilogram-Mass/Centimeter-Second |
| | × .0247 | = Kilogram-Mass/Meter-Second |
| | × 1.49 | = Kilogram-Mass/Meter-Minute |
| | × 89. | = Kilogram-Mass/Meter-Hour |
| | × .00252 | = Kilogram-Force-Second/Sq Meter |
| | × .247 | = Poise |
| | × .00556 | = Pound-Force-Second/Sq Meter |
| | × .5/o359 | = Pound-Force-Second/Sq Inch |
| | × .000517 | = Pound-Force-Second/Sq Foot |
| | × .7/o6 | = Pound-Force-Minute/Sq Inch |
| | × .5/o862 | = Pound-Force-Minute/Sq Foot |
| | × .5/o556 | = Pound-Mass/Centimeter-Second |
| | × .00138 | = Pound-Mass/Inch-Second |
| | × .0166 | = Pound-Mass/Foot-Second |
| | × .000327 | = Pound-Mass/Centimeter-Minute |
| | × .0834 | = Pound-Mass/Inch-Minute |
| | × 1.0 | = Pound-Mass/Foot-Minute |
| | × .0019 | = Pound-Mass/Centimeter-Hour |
| | × 5. | = Pound-Mass/Inch-Hour |
| | × 60. | = Pound-Mass/Foot-Hour |
| | × .5/o556 | = Poundal-Second/Sq Centimeter |
| | × .00138 | = Poundal-Second/Sq Inch |
| | × .0166 | = Poundal-Second/Sq Foot |
| | × .000327 | = Poundal-Minute/Sq Centimeter |
| | × .0834 | = Poundal-Minute/Sq Inch |
| | × .0019 | = Poundal-Hour/Sq Centimeter |
| | × 5. | = Poundal-Hour/Sq Inch |
| | × 60. | = Poundal-Hour/Sq Foot |
| Poundal-Minute/Square Inch | × 298. | = Centipoise |
| | × 2.98 | = Dyne-Second/Sq Centimeter |
| | × 29800. | = Dyne-Second/Sq Meter |

| | | |
|---|---|---|
| Poundal-Minute/Square Inch | × 19.2 | = Dyne-Second/Sq Inch |
| | × 2760. | = Dyne-Second/Sq Foot |
| | × 2.98 | = Gram-Mass/Centimeter-Second |
| | × 1.78 | = Gram-Mass/Centimeter-Minute |
| | × 10700. | = Gram-Mass/Centimeter-Hour |
| | × .00298 | = Kilogram-Mass/Centimeter-Second |
| | × .298 | = Kilogram-Mass/Meter-Second |
| | × 17.8 | = Kilogram-Mass/Meter-Minute |
| | × 1070. | = Kilogram-Mass/Meter-Hour |
| | × .0303 | = Kilogram-Force-Second/Sq Meter |
| | × 2.98 | = Poise |
| | × .067 | = Pound-Force-Second/Sq Meter |
| | × .4/o432 | = Pound-Force-Second/Sq Inch |
| | × .00622 | = Pound-Force-Second/Sq Foot |
| | × .6/o72 | = Pound-Force-Minute/Sq Inch |
| | × .3/o103 | = Pound-Force-Minute/Sq Foot |
| | × .4/o656 | = Pound-Mass/Centimeter-Second |
| Poundal-Minute/Square Inch | × .0166 | = Pound-Mass/Inch-Second |
| | × .2 | = Pound-Mass/Foot-Second |
| | × .00393 | = Pound-Mass/Centimeter-Minute |
| | × 1.0 | = Pound-Mass/Inch-Minute |
| | × 12. | = Pound-Mass/Foot-Minute |
| | × .0233 | = Pound-Mass/Centimeter-Hour |
| | × 60. | = Pound-Mass/Inch-Hour |
| | × 720. | = Pound-Mass/Foot-Hour |
| | × .4/o656 | = Poundal-Second/Sq Centimeter |
| | × .0166 | = Poundal-Second/Sq Inch |
| | × .2 | = Poundal-Second/Sq Foot |
| | × .00395 | = Poundal-Minute/Sq Centimeter |
| | × 12. | = Poundal-Minute/Sq Foot |
| | × .0233 | = Poundal-Hour/Sq Centimeter |
| | × 60. | = Poundal-Hour/Sq Inch |
| | × 720. | = Poundal-Hour/Sq Foot |
| Poundal-Second/Square Centimeter | × 4540000. | = Centipoise |
| | × 45400. | = Dyne-Second/Sq Centimeter |
| | × 454(6/o). | = Dyne-Second/Sq Meter |
| | × 292000. | = Dyne-Second/Sq Inch |
| | × 421(5/o). | = Dyne-Second/Sq Foot |
| | × 45400. | = Gram-Mass/Centimeter-Second |
| | × 2720000. | = Gram-Mass/Centimeter-Minute |
| | × 163(6/o). | = Gram-Mass/Centimeter-Hour |
| | × 45.4 | = Kilogram-Mass/Centimeter-Second |
| | × 4540. | = Kilogram-Mass/Meter-Second |
| | × 272000. | = Kilogram-Mass/Meter-Minute |
| | × 165(5/o). | = Kilogram-Mass/Meter-Hour |
| | × 462. | = Kilogram-Force-Second/Sq Meter |
| | × 45400. | = Poise |
| | × 1020. | = Pound-Force-Second/Sq Meter |
| | × .658 | = Pound-Force-Second/Sq Inch |
| | × 94.8 | = Pound-Force-Second/Sq Foot |
| | × .0109 | = Pound-Force-Minute/Sq Inch |
| | × 1.58 | = Pound-Force-Minute/Sq Foot |
| | × 1.0 | = Pound-Mass/Centimeter-Second |
| | × 254. | = Pound-Mass/Inch-Second |
| | × 3050. | = Pound-Mass/Foot-Second |
| | × 60.1 | = Pound-Mass/Centimeter-Minute |
| | × 15200. | = Pound-Mass/Inch-Minute |
| | × 182000. | = Pound-Mass/Foot-Minute |
| | × 356. | = Pound-Mass/Centimeter-Hour |
| | × 914000. | = Pound-Mass/Inch-Hour |
| | × 109(5/o). | = Pound-Mass/Foot-Hour |
| | × 254. | = Poundal-Second/Sq Inch |
| | × 3050. | = Poundal-Second/Sq Foot |
| | × 60.1 | = Poundal-Minute/Sq Centimeter |
| | × 15200. | = Poundal-Minute/Sq Inch |
| | × 182000. | = Poundal-Minute/Sq Foot |

| | | |
|---|---|---|
| Poundal-Second/Square Centimeter | × 356. | = Poundal-Hour/Sq Centimeter |
| | × 914000. | = Poundal-Hour/Sq Inch |
| | × 109(5/o). | = Poundal-Hour/Sq Foot |
| Poundal-Second/Square Foot | × 1488. | = Centipoise |
| | × 14.88 | = Dyne-Second/Sq Centimeter |
| | × 148800. | = Dyne-Second/Sq Meter |
| | × 96. | = Dyne-Second/Sq Inch |
| | × 13800. | = Dyne-Second/Sq Foot |
| | × 14.88 | = Gram-Mass/Centimeter-Second |
| | × 894. | = Gram-Mass Centimeter-Minute |
| | × 53500. | = Gram-Mass/Centimeter-Hour |
| | × .01488 | = Kilogram-Mass/Centimeter-Second |
| | × 1.488 | = Kilogram-Mass/Meter-Second |
| | × 89.4 | = Kilogram-Mass/Meter-Minute |
| | × 5350. | = Kilogram-Mass/Meter-Hour |
| | × .151 | = Kilogram-Force-Second/Sq Meter |
| | × 14.88 | = Poise |
| | × .334 | = Pound-Force-Second/Sq Meter |
| | × .000216 | = Pound-Force-Second/Sq Inch |
| | × .0311 | = Pound-Force-Second/Sq Foot |
| | × .5/o36 | = Pound-Force-Minute/Sq Inch |
| | × .000517 | = Pound-Force-Minute/Sq Foot |
| Poundal-Second/Square Foot | × .3/o328 | = Pound-Mass/Centimeter-Second |
| | × .0832 | = Pound-Mass/Inch-Second |
| | × 1.0 | = Pound-Mass/Foot-Second |
| | × .0196 | = Pound-Mass/Centimeter-Minute |
| | × 5. | = Pound-Mass/Inch-Minute |
| | × 60. | = Pound-Mass/Foot-Minute |
| | × .116 | = Pound-Mass/Centimeter-Hour |
| | × 300. | = Pound-Mass/Inch-Hour |
| | × 3600. | = Pound-Mass/Foot-Hour |
| | × .3/o328 | = Poundal-Second/Sq Centimeter |
| | × .0832 | = Poundal-Second/Sq Inch |
| | × .0196 | = Poundal-Minute/Sq Centimeter |
| | × 5. | = Poundal-Minute/Sq Inch |
| | × 60. | = Poundal-Minute/Sq Foot |
| | × .116 | = Poundal-Hour/Sq Centimeter |
| | × 300. | = Poundal-Hour/Sq Inch |
| | × 3600. | = Poundal-Hour/Sq Foot |
| Poundal-Second/Square Inch | × 17800. | = Centipoise |
| | × 178. | = Dyne-Second/Sq Centimeter |
| | × 1780000. | = Dyne-Second/Sq Meter |
| | × 1150. | = Dyne-Second/Sq Inch |
| | × 166000. | = Dyne-Second/Sq Foot |
| | × 178. | = Gram-Mass/Centimeter-Second |
| | × 10700. | = Gram-Mass/Centimeter-Minute |
| | × 643000. | = Gram-Mass/Centimeter-Hour |
| | × .178 | = Kilogram-Mass/Centimeter-Second |
| | × 17.8 | = Kilogram-Mass/Meter-Second |
| | × 1070. | = Kilogram-Mass/Meter-Minute |
| | × 64300. | = Kilogram-Mass/Meter-Hour |
| | × 1.82 | = Kilogram-Force-Second/Sq Meter |
| | × 178. | = Poise |
| | × 4.01 | = Pound-Force-Second/Sq Meter |
| | × .00259 | = Pound-Force-Second/Sq Inch |
| | × .373 | = Pound-Force-Second/Sq Foot |
| | × .4/o43 | = Pound-Force-Minute/Sq Inch |
| | × .0062 | = Pound-Force-Minute/Sq Foot |
| Poundal-Second/Square Inch | × .00394 | = Pound-Mass/Centimeter-Second |
| | × 1.0 | = Pound-Mass/Inch-Second |
| | × 12. | = Pound-Mass/Foot-Second |
| | × .236 | = Pound-Mass/Centimeter-Minute |
| | × 60. | = Pound-Mass/Inch-Minute |
| | × 720. | = Pound-Mass/Foot-Minute |
| | × 1.4 | = Pound-Mass/Centimeter-Hour |
| | × 3600. | = Pound-Mass/Inch-Hour |

| | | |
|---|---|---|
| Poundal-Second/Square Inch | × 4325. | = Pound-Mass/Foot-Hour |
| | × .00394 | = Poundal-Second/Sq Centimeter |
| | × 12. | = Poundal-Second/Sq Foot |
| | × .236 | = Poundal-Minute/Sq Centimeter |
| | × 60. | = Poundal-Minute/Sq Inch |
| | × 720. | = Poundal-Minute/Sq Foot |
| | × 1.4 | = Poundal-Hour/Sq Centimeter |
| | × 3600. | = Poundal-Hour/Sq Inch |
| | × 4325. | = Poundal-Hour/Sq Foot |
| Poundal/Square Inch | × 2142.97 | = Dyne/Square Centimeter |
| | × 2.18536 | = Gram/Square Centimeter |
| | × .031081 | = Pound/Square Inch |
| Pound Apothecaries and Troy | × 22.816 | = Cubic Inch Water 62F |
| | × 210.5614 | = Dram Avoir |
| | × 96. | = Dram Troy |
| | × 5760. | = Grain Apoth-Troy-Avoir |
| | × 373.24 | = Gram |
| | × .37324177 | = Kilogram |
| | × 373241.77 | = Milligram |
| | × 12. | = Ounce Apoth-Troy |
| | × 13.1657 | = Ounce Avoir |
| | × 240. | = Pennyweight Troy |
| | × .8228571 | = Pound Avoir |
| | × 288. | = Scruple Troy |
| | × .3/o3673 | = Ton Long |
| | × .3/o3732 | = Ton Metric |
| | × .3/o4114 | = Ton Short |
| Pound Avoirdupois | × 2267.9616 | = Carat |
| | × .01 | = Cwt |
| | × 116.6667 | = Dram Apoth |
| | × 256. | = Dram Avoir |
| | × 7000. | = Grain |
| | × 453.5924277 | = Gram |
| | × .00893 | = Hundredweight Long |
| | × .01 | = Hundredweight Short |
| | × .45359245 | = Kilogram (England) |
| | × .4535924277 | = Kilogram (US) |
| | × 453592.42 | = Milligram |
| | × 291.6667 | = Pennyweight |
| | × 14.5833 | = Ounce Apoth-Troy |
| | × 16. | = Ounce Avoir |
| | × 32.174 | = Poundal |
| | × 1.21528 | = Pound Apoth-Troy |
| | × 350. | = Scruple |
| | × .031081 | = Slug |
| | × .0004464 | = Ton Long |
| | × .3/o453592 | = Ton Metric |
| | × .0005 | = Ton Short |
| Pound Avoirdupois × Feet/Minute | × .4/o30303 | = HP to Hoist Vertical |
| Pound Avoirdupois/Day | × 18.89969 | = Gram/Hour |
| | × .45359 | = Kilogram/Day |
| | × 5.24991 | = Milligram/Second |
| | × .66667 | = Ounce Avoir/Hour |
| | × .041667 | = Pound Avoir/Hour |
| | × .16567 | = Ton Metric/Year |
| | × .18262 | = Ton Short Avoir/Year |
| Pound Avoirdupois/Hour | × 453.59243 | = Gram/Hour |
| | × 10.88622 | = Kilogram/Day |
| | × 125.99790 | = Milligram/Second |
| | × 16. | = Ounce Avoir/Hour |
| | × 24. | = Pound Avoir/Day |
| | × 3.97611 | = Ton Metric/Year |
| | × 4.38291 | = Ton Short/Year |
| Pound Avoirdupois/Kilo-Foot | × 1.488 | = Kilogram/Kilometer |
| Pound/Bushel | × .01287 | = Gram/Cubic Centimeter |
| | × 12.8718 | = Kilogram/Cubic Meter |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Pound/Bushel | × 1.28718 | = Kilogram/Hectoliter |
| | × .80356 | = Pound/Cubic Foot |
| | × .000465 | = Pound/Cubic Inch |
| | × 21.6962 | = Pound/Cubic Yard |
| | × .125 | = Pound/Gallon Dry US |
| | × .10742 | = Pound/Gallon Liquid US |
| Pound-Calorie | × 1.8 | = Btu |
| | × 453.6 | = Gram-Calorie |
| | × .4536 | = Kilogram-Calorie |
| | × 453.474 | = Mean Calorie |
| | × 4.53474 | = Ostwald Calorie |
| Pound Centigrade Heat Unit (lb-Chu) | × 1.8 | = Btu |
| | × 453.6 | = Gram-Calorie |
| | × 1399.5 | = Foot-Pound |
| | × .4/o70686 | = Horsepower US-Hour |
| | × .3/o71718 | = Horsepower-Metric-Hour |
| | × 2.57968 | = Horsepower-Metric-Second |
| | × 2.5346 | = Horsepower US-Second |
| | × 1897.2 | = Joule |
| | × .4536 | = Kilogram-Calorie |
| | × 193.5 | = Kilogram-Meter |
| | × .3/o52704 | = Kilowatt-Hour |
| | × 1.89881 | = Kilowatt-Second |
| | × 1.0 | = pcu |
| | × 1.0 | = Pound-Chu |
| | × .52704 | = Watt-Hour |
| Pound-Chu | × 1.0 | = Pound Centigrade Heat Unit |
| Pound-Chu/Hr-Sqft/Ft/°C | × .00413 | = Gram-Cal/Sec-Sqcm/cm/°C |
| | × 173. | = Kilo-Erg/Sec-Sqcm/cm/°C |
| | × .0173 | = Watt/Sqcm/cm/°C |
| Pound/Cubic Foot | × .0160184 | = Gram/Cubic Centimeter |
| | × 16.0184 | = Kilogram/Cubic Meter |
| | × 1.60184 | = Kilogram/Hectoliter |
| | × 1.24446 | = Pound/Bushel US |
| | × .0005787 | = Pound/Cubic Inch |
| | × 27. | = Pound/Cubic Yard |
| | × .031081 | = Pound-Force Density |
| | × .15555 | = Pound/Gallon Dry US |
| | × .13368 | = Pound/Gallon Liquid US |
| | × Cubic Foot | = Pound-Mass |
| | × .8/o5456 | = Pound/Mil-Foot |
| | × .031081 | = Slug/Cubic Foot |
| | × .016037206 | = Specific Gravity 62F |
| | × .016034377 | = Specific Gravity 60F |
| | × .016019222 | = Specific Gravity 39.1F |
| | × .012054 | = Ton Long/Cu Yard |
| | × .01602 | = Ton Metric/Cu Meter |
| | × .0005 | = Ton Short/Cubic Foot |
| | × .0135 | = Ton Short/Cubic Yard |
| Pound/Cubic Inch | × 27.67974 | = Gram/Cubic Centimeter |
| | × 27679.74 | = Kilogram/Cubic Meter |
| | × 2767.97 | = Kilogram/Hectoliter |
| | × 2150.42688 | = Pound/Bushel US Struck |
| | × 1728. | = Pound/Cubic Foot |
| | × 46656. | = Pound/Cubic Yard |
| | × 268.803 | = Pound/Gallon Dry US |
| | × 231. | = Pound/Gallon Liquid US |
| | × .5/o9425 | = Pound/Mil-Foot |
| | × 27.681 | = Specific Gravity 39.1F |
| | × 27.712 | = Specific Gravity 62F |
| | × 27.707 | = Specific Gravity 60F |
| | × 20.83 | = Ton Long/Cubic Yard |
| | × 27.68 | = Ton Metric/Cubic Yard |
| | × .864 | = Ton Short/Cubic Foot |
| | × 23.33 | = Ton Short/Cubic Yard |
| Pound/Cubic Yard | × .000593272 | = Gram/Cubic Centimeter |

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|---|---|---|
| Pound/Cubic Yard | × .59327 | = Kilogram/Cubic Meter |
| | × .059327 | = Kilogram/Hectoliter |
| | × .04609 | = Pound/Bushel US Struck |
| | × .037037 | = Pound/Cubic Foot |
| | × .4/o214334 | = Pound/Cubic Inch |
| | × .005761 | = Pound/Gallon Dry US |
| | × .004951 | = Pound/Gallon Liquid US |
| | × .0004464 | = Ton Long/Cubic Yard |
| | × .005933 | = Ton Metric/Cubic Meter |
| | × .0005 | = Ton Short/Cubic Yard |
| Pound-Foot | × 13560000. | = Dyne-Centimeter |
| | × 13830. | = Gram-Centimeter |
| | × .1383 | = Kilogram-Meter |
| | × 1.305 | = Newton-Meter |
| Pound/Foot | × 583.333 | = Grain/Inch |
| | × 14.88161 | = Gram/Centimeter |
| | × 37.79937 | = Gram/Inch |
| | × 1488.16 | = Kilogram/Kilometer |
| | × 1.4881459 | = Kilogram/Meter |
| | × .0833 | = Pound/Inch |
| | × 3.0 | = Pound/Yard |
| Pound-Foot Squared | × 421434. | = Gram-Centimeter Squared |
| | × .0421434 | = Kilogram-Meter Squared |
| | × 144. | = Pound-Inch Squared |
| | × .0310811 | = Slug-Foot Squared |
| Pound-Force-Apoth | × 366025. | = Dyne |
| Pound-Force-Avoir | × 444822. | = Dyne |
| | × 32.174 | = Feet/Second/Second |
| | × Foot Height | = Foot-Pound Potential Energy |
| | × 453.5924277 | = Gram-Force |
| | × .0448 | = Joule/Centimeter |
| | × 4.448 | = Joule/Meter |
| | × .45359 | = Kilogram |
| | × .4536 | = Kilogram-Force |
| | × 4.448 | = Newton |
| | × 32.174 | = Poundal |
| | × 1. | = Pound-Force-Avoir |
| | × .031081 | = Pound-Mass |
| | × 1. | = Pound-Weight |
| Pound-Force-Foot/Pound-Mass-°F | = R | = (Specific Heat Constant) |
| Pound-Force × Foot/Pound-Mass × °F | = R | = SpHt Constant |
| × Second Squared | = Pound-Force Density × Foot Fourth Power | |
| × Sp Heat Btu/lb-° F × °F | × Second Squared | = Btu × Foot |
| Pound-Force Density | × 32.174 | = Pound/Cubic Foot Density |
| × Foot Fourth Power | = Pound-Force | × Second Squared |
| × Kinematic Vis Sqft/sec | | = Abs Vis Pound-Force-sec/Sqft |
| Pound-Force-Minute/Sq Foot | × 2870000. | = Centipoise |
| | × 28700. | = Dyne-Second/Sq Centimeter |
| | × 287(6/o). | = Dyne-Second/Sq Meter |
| | × 18500. | = Dyne-Second/Sq Inch |
| | × 267(5/o). | = Dyne-Second/Sq Foot |
| | × 28700. | = Gram-Mass/Centimeter-Second |
| | × 1720000. | = Gram-Mass/Centimeter-Minute |
| | × 1035(5/o). | = Gram-Mass/Centimeter-Hour |
| | × 28.7 | = Kilogram-Mass/Centimeter-Second |
| | × 2870. | = Kilogram-Mass/Meter-Second |
| | × 172000. | = Kilogram-Mass/Meter-Minute |
| | × 10350000. | = Kilogram-Mass/Meter-Hour |
| | × 293. | = Kilogram-Force-Second/Sq Meter |
| | × 28700. | = Poise |
| | × 645. | = Pound-Force-Second/Sq Meter |
| | × .416 | = Pound-Force-Second/Sq Inch |
| | × 60. | = Pound-Force-Second/Sq Foot |
| | × .00695 | = Pound-Force-Second/Sq Inch |
| Pound-Force-Minute/Sq Foot | × .634 | = Pound-Mass/Centimeter-Second |
| | × 161. | = Pound-Mass/Inch-Second |

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|---|---|---|
| Pound-Force-Minute/Sq Foot | × 1930. | = Pound-Mass/Foot-Second |
| | × 38. | = Pound-Mass/Centimeter-Minute |
| | × 96600. | = Pound-Mass/Inch-Minute |
| | × 116000. | = Pound-Mass/Foot-Minute |
| | × 225. | = Pound-Mass/Centimeter-Hour |
| | × 579000. | = Pound-Mass/Inch-Hour |
| | × 6950000. | = Pound-Mass/Foot-Hour |
| | × .634 | = Poundal-Second/Sq Centimeter |
| | × 161. | = Poundal-Second/Sq Inch |
| | × 1930. | = Poundal-Second/Sq Foot |
| | × 38. | = Poundal-Minute/Sq Centimeter |
| | × 96600. | = Poundal-Minute/Sq Inch |
| | × 116000. | = Poundal-Minute/Sq Foot |
| | × 225. | = Poundal-Hour/Sq Centimeter |
| | × 579000. | = Poundal-Hour/Sq Inch |
| | × 6950000. | = Poundal-Hour/Sq Foot |
| Pound-Force-Minute/Square Inch | × 414(6/o). | = Centipoise |
| | × 4140000. | = Dyne-Second/Sq Centimeter |
| | × 414(8/o). | = Dyne-Second/Sq Meter |
| | × 267(5/o). | = Dyne-Second/Sq Inch |
| | × 384(7/o). | = Dyne-Second/Sq Foot |
| | × 4140000. | = Gram-Mass/Centimeter-Second |
| | × 248(6/o). | = Gram-Mass/Centimeter-Minute |
| | × 149(8/o). | = Gram-Mass/Centimeter-Hour |
| | × 4140. | = Kilogram-Mass/Centimeter-Second |
| | × 414000. | = Kilogram-Mass/Meter-Second |
| | × 248(5/o). | = Kilogram-Mass/Meter-Minute |
| | × 149(7/o). | = Kilogram-Mass/Meter-Hour |
| | × 42100. | = Kilogram-Force-Second/Sq Meter |
| | × 4140000. | = Poise |
| | × 93000. | = Pound-Force-Second/Sq Meter |
| | × 60. | = Pound-Force-Second/Sq Inch |
| | × 8640. | = Pound-Force-Second/Sq Foot |
| | × 144. | = Pound-Force-Minute/Sq Foot |
| Pound-Force-Minute/Square Inch | × 91.1 | = Pound-Mass/Centimeter-Second |
| | × 23100. | = Pound-Mass/Inch-Second |
| | × 278000. | = Pound-Mass/Foot-Second |
| | × 5450. | = Pound-Mass/Centimeter-Minute |
| | × 1390000. | = Pound-Mass/Inch-Minute |
| | × 166(5/o). | = Pound-Mass/Foot-Minute |
| | × 32400. | = Pound-Mass/Centimeter-Hour |
| | × 832(5/o). | = Pound-Mass/Inch-Hour |
| | × 9990000. | = Pound-Mass/Foot-Hour |
| | × 91.1 | = Poundal-Second/Sq Centimeter |
| | × 23100. | = Poundal-Second/Sq Inch |
| | × 278000. | = Poundal-Second/Sq Foot |
| | × 5450. | = Poundal-Minute/Sq Centimeter |
| | × 1390000. | = Poundal-Minute/Sq Inch |
| | × 166(5/o). | = Poundal-Minute/Sq Foot |
| | × 32400. | = Poundal-Hour/Sq Centimeter |
| | × 832(5/o). | = Poundal-Hour/Sq Inch |
| | × 9990000. | = Poundal-Hour/Sq Foot |
| Pound-Force-Second/Square Foot | × 478000. | = Centipoise |
| | × 478. | = Dyne-Second/Sq Centimeter |
| | × 4780000. | = Dyne-Second/Sq Meter |
| | × 3080. | = Dyne-Second/Sq inch |
| | × 445000. | = Dyne-Second/Sq Foot |
| | × 478. | = Gram-Mass/Centimeter-Second |
| | × 28700. | = Gram-Mass/Centimeter-Minute |
| | × 1720000. | = Gram-Mass/Centimeter-Hour |
| | × .478 | = Kilogram-Mass/Centimeter-Second |
| | × 47.8 | = Kilogram-Mass/Meter-Second |
| | × 2870. | = Kilogram-Mass/Meter-Minute |
| | × 172000. | = Kilogram-Mass/Meter-Hour |
| | × 4.87 | = Kilogram-Force-Second/Sq Meter |
| | × 478. | = Poise |

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|---|---|---|
| Pound-Force-Second/Square Foot | × 10.7 | = Pound-Force-Second/Sq Meter |
| | × .00694 | = Pound-Force-Second/Sq Inch |
| | × .000115 | = Pound-Force-Minute/Sq Inch |
| | × .0166 | = Pound-Force-Minute/Sq Foot |
| | × .0105 | = Pound-Mass/Centimeter-Second |
| | × 2.68 | = Pound-Mass/Inch-Second |
| | × 32.2 | = Pound-Mass/Foot-Second |
| | × .632 | = Pound-Mass/Centimeter-Minute |
| | × 161. | = Pound-Mass/Inch-Minute |
| | × 1930. | = Pound-Mass/Foot-Minute |
| | × 3.74 | = Pound-Mass/Centimeter-Hour |
| | × 9650. | = Pound-Mass/Inch-Hour |
| | × 115000. | = Pound-Mass/Foot-Hour |
| | × .0105 | = Poundal-Second/Sq Centimeter |
| | × 2.68 | = Poundal-Second/Sq Inch |
| | × 32.2 | = Poundal-Second/Sq Foot |
| | × .632 | = Poundal-Minute/Sq Centimeter |
| | × 161. | = Poundal-Minute/Sq Inch |
| | × 1930. | = Poundal-Minute/Sq Foot |
| | × 3.74 | = Poundal-Hour/Sq Centimeter |
| | × 9650. | = Poundal-Hour/Sq Inch |
| | × 115000. | = Poundal-Hour/Sq Foot |
| Pound-Force-Second/Square Inch | × 69(5/o). | = Centipoise |
| | × 69000. | = Dyne-Second/Sq Centimeter |
| | × 69(7/o). | = Dyne-Second/Sq Meter |
| | × 445000. | = Dyne-Second/Sq Inch |
| | × 64(6/o). | = Dyne-Second/Sq Foot |
| | × 69000. | = Gram-Mass/Centimeter-Second |
| | × 4140000. | = Gram-Mass/Centimeter-Minute |
| | × 248(6/o). | = Gram-Mass/Centimeter-Hour |
| | × 69. | = Kilogram-Mass/Centimeter-Second |
| | × 6900. | = Kilogram-Mass/Meter-Second |
| | × 414000. | = Kilogram-Mass/Meter-Minute |
| | × 248(5/o). | = Kilogram-Mass/Meter-Hour |
| | × 703. | = Kilogram-Force-Second/Sq Meter |
| | × 69000. | = Poise |
| | × 1550. | = Pound-Force-Second/Sq Meter |
| | × 144. | = Pound-Force-Second/Sq Foot |
| | × .0167 | = Pound-Force-Minute/Sq Inch |
| | × 2.4 | = Pound-Force-Minute/Sq Foot |
| Pound-Force-Second/Square Inch | × 1.52 | = Pound-Mass/Centimeter-Second |
| | × 386. | = Pound-Mass/Inch-Second |
| | × 4640. | = Pound-Mass/Foot-Second |
| | × 91.2 | = Pound-Mass/Centimeter-Minute |
| | × 23200. | = Pound-Mass/Inch-Minute |
| | × 2780. | = Pound-Mass/Foot-Minute |
| | × 540. | = Pound-Mass/Centimeter-Hour |
| | × 1390000. | = Pound-Mass/Inch-Hour |
| | × 16660000. | = Pound-Mass/Foot-Hour |
| | × 1.52 | = Poundal-Second/Sq Centimeter |
| | × 386. | = Poundal-Second/Sq Inch |
| | × 4640. | = Poundal-Second/Sq Foot |
| | × 91.2 | = Poundal-Minute/Sq Centimeter |
| | × 23200. | = Poundal-Minute/Sq Inch |
| | × 2780. | = Poundal-Minute/Sq Foot |
| | × 540. | = Poundal-Hour/Sq Centimeter |
| | × 1390000. | = Poundal-Hour/Sq Inch |
| | × 16660000. | = Poundal-Hour/Sq Foot |
| Pound-Force-Second/Square Meter | × 4450. | = Centipoise |
| | × 44.5 | = Dyne-Second/Sq Centimeter |
| | × 445000. | = Dyne-Second/Sq Meter |
| | × 287. | = Dyne-Second/Sq Inch |
| | × 41400. | = Dyne-Second/Sq Foot |
| | × 44.5 | = Gram-Mass/Centimeter-Second |
| | × 2670. | = Gram-Mass/Centimeter-Minute |
| | × 160000. | = Gram-Mass/Centimeter-Hour |

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|---|---|---|
| Pound-Force-Second/Square Meter | × .0445 | = Kilogram-Mass/Centimeter-Second |
| | × 4.45 | = Kilogram-Mass/Meter-Second |
| | × 267. | = Kilogram-Mass/Meter-Minute |
| | × 16000. | = Kilogram-Mass/Meter-Hour |
| | × .454 | = Kilogram-Force-Second/Sq Meter |
| | × 44.5 | = Poise |
| | × .000645 | = Pound-Force-Second/Sq Inch |
| | × .093 | = Pound-Force-Second/Sq Foot |
| | × .5/o107 | = Pound-Force-Minute/Sq Inch |
| | × .00155 | = Pound-Force-Minute/Sq Foot |
| | × .0098 | = Pound-Mass/Centimeter-Second |
| | × .249 | = Pound-Mass/Inch-Second |
| | × 2.99 | = Pound-Mass/Foot-Second |
| | × .0588 | = Pound-Mass/Centimeter-Minute |
| | × 14.9 | = Pound-Mass/Inch-Minute |
| | × 179. | = Pound-Mass/Foot-Minute |
| | × .348 | = Pound-Mass/Centimeter-Hour |
| | × 896. | = Pound-Mass/Inch-Hour |
| | × 10750. | = Pound-Mass/Foot-Hour |
| | × .0098 | = Poundal-Second/Sq Centimeter |
| | × .249 | = Poundal-Second/Sq Inch |
| | × 2.99 | = Poundal-Second/Sq Foot |
| | × .0588 | = Poundal-Minute/Sq Centimeter |
| | × 14.9 | = Poundal-Minute/Sq Inch |
| | × 179. | = Poundal-Minute/Sq Foot |
| | × .348 | = Poundal-Hour/Sq Centimeter |
| | × 896. | = Poundal-Hour/Sq Inch |
| | × 10750. | = Poundal-Hour/Sq Foot |
| Pound/Gallon Dry US | × .102974 | = Gram/Cubic Centimeter |
| | × 102.974 | = Kilogram/Cubic Meter |
| | × 10.2974 | = Kilogram/Hectoliter |
| | × 8. | = Pound/Bushel US Struck |
| | × 6.42851 | = Pound/Cubic Foot |
| | × .003720 | = Pound/Cubic Inch |
| | × 173.570 | = Pound/Cubic Yard |
| | × .85937 | = Pound/Gallon Liquid US |
| Pound/Gallon Liquid US | × .119826 | = Gram/Cubic Centimeter |
| | × 119.826 | = Kilogram/Cubic Meter |
| | × 11.9826 | = Kilogram/Hectoliter |
| | × 9.30920 | = Pound/Bushel US Struck |
| | × 7.480519 | = Pound/Cubic Foot |
| | × .004329 | = Pound/Cubic Inch |
| | × 201.9735 | = Pound/Cubic Yard |
| | × 1.16365 | = Pound/Gallon Dry US |
| | × .09017 | = Ton Long/Cubic Yard |
| | × .1198 | = Ton Metric/Cubic Meter |
| | × .00374 | = Ton Short/Cubic Foot |
| | × .1010 | = Ton Short/Cubic Yard |
| Pound/Hour-Square Foot | × 1.0 | = Mass Velocity Unit |
| Pound/HP-Hour × Reaction Voltage | = 1.6457 | × Gram/Ampere-Hour |
| Pound/HP-Year × Reaction Voltage | = 14426.5 | × Gram/Ampere-Hour |
| Pound/Inch | × 178.577508 | = Gram/Centimeter |
| | × 453.5883735 | = Gram/Inch |
| | × 17.8577 | = Kilogram/Meter |
| | × 12. | = Pound/Foot |
| | × 36. | = Pound/Yard |
| | × 28.2857 | = Ton Long/Mile |
| | × 17.8577 | = Ton Metric/Kilometer |
| | × 31.6800 | = Ton Short/Mile |
| Pound-Inch Squared | × 2926.6 | = Gram-Centimeter Squared |
| | × .00029266 | = Kilogram-Meter Squared |
| | × .006944 | = Pound-Foot Squared |
| | × .000215841 | = Pound-Inch Squared |
| Pound-Mass | × °C | = Chu |
| | × 453.5924277 | = Gram-Mass |
| | × .45359 | = Kilogram-Mass |

| | | |
|---|---|---|
| Pound-Mass | × .046253 | = Kilogram-Slug Mass |
| | × 32.174 | = Pound-Force |
| | × fps Squared | = Pound-Force |
| | × .031081 | = Slug Mass |
| Pound-Mass (British Absolute) | × 1.0 | = Poundal/Foot/Second Squared |
| Pound-Mass × Feet/Second Squared | × .01554 | = Foot-Pound Kinetic Energy |
| Pound-Mass of Matter | × 35(11/o). | = Btu (Energy) |
| Pound-Mass × Specific Heat Btu/Lb-°F | × °F | = Btu |
| Pound-Mass/Centimeter-Hour | × 12700. | = Centipoise |
| | × 127. | = Dyne-Second/Sq Centimeter |
| | × 1270000. | = Dyne-Second/Sq Meter |
| | × 820. | = Dyne-Second/Sq Inch |
| | × 118500. | = Dyne-Second/Sq Foot |
| | × 127. | = Gram-Mass/Centimeter-Second |
| | × 7650. | = Gram-Mass/Centimeter-Minute |
| | × 460000. | = Gram-Mass/Centimeter-Hour |
| | × .127 | = Kilogram-Mass/Centimeter-Second |
| | × 12.7 | = Kilogram-Mass/Meter-Second |
| | × 765. | = Kilogram-Mass/Meter-Minute |
| | × 46000. | = Kilogram-Mass/Meter-Hour |
| | × 1.3 | = Kilogram-Force-Second/Sq Meter |
| | × 127. | = Poise |
| | × 2.87 | = Pound-Force-Second/Sq Meter |
| | × .00185 | = Pound-Force-Second/Sq Inch |
| | × .266 | = Pound-Force-Second/Sq Foot |
| | × .4/o309 | = Pound-Force-Minute/Sq Inch |
| | × .00444 | = Pound-Force-Minute/Sq Foot |
| | × .00281 | = Pound-Mass/Centimeter-Second |
| | × .715 | = Pound-Mass/Inch-Second |
| | × 8.57 | = Pound-Mass/Foot-Second |
| | × .168 | = Pound-Mass/Centimeter-Minute |
| | × 42.9 | = Pound-Mass/Inch-Minute |
| | × 515. | = Pound-Mass/Foot-Minute |
| | × 2570. | = Pound-Mass/Inch-Hour |
| | × 30900. | = Pound-Mass/Foot-Hour |
| | × .00281 | = Poundal-Second/Sq Centimeter |
| | × .715 | = Poundal-Second/Sq Inch |
| | × 8.57 | = Poundal-Second/Sq Foot |
| | × .168 | = Poundal-Minute/Sq Centimeter |
| | × 42.9 | = Poundal-Minute/Sq Inch |
| | × 515 | = Poundal-Minute/Sq Foot |
| | × 1.0 | = Poundal-Hour/Sq Centimeter |
| | × 2570. | = Poundal-Hour/Sq Inch |
| | × 30900. | = Poundal-Hour/Sq Foot |
| Pound-Mass/Centimeter-Minute | × 75700. | = Centipoise |
| | × 757. | = Dyne-Second/Sq Centimeter |
| | × 7570000. | = Dyne-Second/Sq Meter |
| | × 4870. | = Dyne-Second/Sq Inch |
| | × 702000. | = Dyne-Second/Sq Foot |
| | × 757. | = Gram-Mass/Centimeter-Second |
| | × 45400. | = Gram-Mass/Centimeter-Minute |
| | × 2720000. | = Gram-Mass/Centimeter-Hour |
| | × .757 | = Kilogram-Mass/Centimeter-Second |
| | × 75.7 | = Kilogram-Mass/Meter-Second |
| | × 4540. | = Kilogram-Mass/Meter-Minute |
| | × 272000. | = Kilogram-Mass/Meter-Hour |
| | × 7.7 | = Kilogram-Force-Second/Sq Meter |
| | × 757. | = Poise |
| | × 17. | = Pound-Force-Second/Sq Meter |
| | × .011 | = Pound-Force-Second/Sq Inch |
| | × 1.58 | = Pound-Force-Second/Sq Foot |
| | × .3/o183 | = Pound-Force-Minute/Sq Inch |
| | × .0263 | = Pound-Force-Minute/Sq Foot |
| Pound-Mass/Centimeter-Minute | × .0166 | = Pound-Mass/Centimeter-Second |
| | × 4.23 | = Pound-Mass/Inch-Second |
| | × 50.8 | = Pound-Mass/Foot-Second |

| | | |
|---|---|---|
| Pound-Mass/Centimeter-Minute | × 254. | = Pound-Mass/Inch-Minute |
| | × 3050. | = Pound-Mass/Foot-Minute |
| | × 5.92 | = Pound-Mass/Centimeter-Hour |
| | × 15200. | = Pound-Mass/Inch-Hour |
| | × 183000. | = Pound-Mass/Foot-Hour |
| | × .0166 | = Poundal-Second/Sq Centimeter |
| | × 4.23 | = Poundal-Second/Sq Inch |
| | × 50.8 | = Poundal-Second/Sq Foot |
| | × 1.0 | = Poundal-Minute/Sq Centimeter |
| | × 254. | = Poundal-Minute/Sq Inch |
| | × 3050. | = Poundal-Minute/Sq Foot |
| | × 5.92 | = Poundal-Hour/Sq Centimeter |
| | × 15200. | = Poundal-Hour/Sq Inch |
| | × 183000. | = Poundal-Hour/Sq Foot |
| Pound-Mass/Centimeter-Second | × 4540000. | = Centipoise |
| | × 45400. | = Dyne-Second/Sq Centimeter |
| | × 454(6/o). | = Dyne-Second/Sq Meter |
| | × 292000. | = Dyne-Second/Sq Inch |
| | × 421(5/o). | = Dyne-Second/Sq Foot |
| | × 45400. | = Gram-Mass/Centimeter-Second |
| | × 2720000. | = Gram-Mass/Centimeter-Minute |
| | × 163(6/o). | = Gram-Mass/Centimeter-Hour |
| | × 45.4 | = Kilogram-Mass/Centimeter-Second |
| | × 4540. | = Kilogram-Mass/Meter-Second |
| | × 272000. | = Kilogram-Mass/Meter-Minute |
| | × 163(5/o). | = Kilogram-Mass/Meter-Hour |
| | × 462. | = Kilogram-Force-Second/Sq Meter |
| | × 45400. | = Poise |
| | × 1020. | = Pound-Force-Second/Sq Meter |
| | × .658 | = Pound-Force-Second/Sq Inch |
| | × 94.8 | = Pound-Force-Second/Sq Foot |
| | × .0109 | = Pound-Force-Minute/Sq Inch |
| | × 1.58 | = Pound-Force-Minute/Sq Foot |
| Pound-Mass/Centimeter-Second | × 254. | = Pound-Mass/Inch-Second |
| | × 3050. | = Pound-Mass/Foot-Second |
| | × 60.1 | = Pound-Mass/Centimeter-Minute |
| | × 15200. | = Pound-Mass/Inch-Minute |
| | × 182000. | = Pound-Mass/Foot-Minute |
| | × 356. | = Pound-Mass/Centimeter-Hour |
| | × 914000. | = Pound-Mass/Inch-Hour |
| | × 109(5/o). | = Pound-Mass/Foot-Hour |
| | × 1.0 | = Poundal-Second/Sq Centimeter |
| | × 254. | = Poundal-Second/Sq Inch |
| | × 3080. | = Poundal-Second/Sq Foot |
| | × 60.1 | = Poundal-Minute/Sq Centimeter |
| | × 15200. | = Poundal-Minute/Sq Inch |
| | × 182000. | = Poundal-Minute/Sq Foot |
| | × 356. | = Poundal-Hour/Sq Centimeter |
| | × 914000. | = Poundal-Hour/Sq Inch |
| | × 109(5/o). | = Poundal-Hour/Sq Foot |
| Pound-Mass/Cubic Foot | × .031081 | = Slug/Cubic Foot |
| Pound-Mass Density × Kinomatic Vis Sqft/Sec | | = Abs Vis Pound-Force-Sec/Sqft |
| Pound-Mass/Foot-Hour | × .414 | = Centipoise |
| | × .00414 | = Dyne-Second/Sq Centimeter |
| | × 41.4 | = Dyne-Second/Sq Meter |
| | × .0267 | = Dyne-Second/Sq Inch |
| | × 3.84 | = Dyne-Second/Sq Foot |
| | × .00414 | = Gram-Mass/Centimeter-Second |
| | × .248 | = Gram-Mass/Centimeter-Minute |
| | × 14.9 | = Gram-Mass/Centimeter-Hour |
| | × .5/o414 | = Kilogram-Mass/Centimeter-Second |
| | × .000414 | = Kilogram-Mass/Meter-Second |
| | × .0248 | = Kilogram-Mass/Meter-Minute |
| | × 1.49 | = Kilogram-Mass/Meter-Hour |
| | × .4/o421 | = Kilogram-Force-Second/Sq Meter |
| | × .00414 | = Poise |

| | | |
|---|---|---|
| Pound-Mass/Foot-Hour | × .4/o93 | = Pound-Force-Second/Sq Meter |
| | × .7/o6 | = Pound-Force-Second/Sq Inch |
| | × .5/o864 | = Pound-Force-Second/Sq Foot |
| | × .8/o1 | = Pound-Force-Meter/Sq Inch |
| | × .6/o144 | = Pound-Force-Meter/Sq Foot |
| | × .7/o911 | = Pound-Mass/Centimeter-Second |
| | × .4/o231 | = Pound-Mass/Inch-Second |
| | × .3/o278 | = Pound-Mass/Foot-Second |
| | × .5/o545 | = Pound-Mass/Centimeter-Minute |
| | × .00139 | = Pound-Mass/Inch-Minute |
| | × .0166 | = Pound-Mass/Foot-Minute |
| | × .4/o324 | = Pound-Mass/Centimeter-Hour |
| | × .0832 | = Pound-Mass/Inch-Hour |
| | × .7/o911 | = Poundal-Second/Sq Centimeter |
| | × .4/o231 | = Poundal-Second/Sq Inch |
| | × .3/o278 | = Poundal-Second/Sq Foot |
| | × .5/o545 | = Poundal-Minute/Sq Centimeter |
| | × .00139 | = Poundal-Minute/Sq Inch |
| | × .0166 | = Poundal-Minute/Sq Foot |
| | × .4/o324 | = Poundal-Hour/Sq Centimeter |
| | × .0832 | = Poundal-Hour/Sq Inch |
| | × 1.0 | = Poundal-Hour/Sq Foot |
| Pound-Mass/Foot-Minute | × 24.7 | = Centipoise |
| | × .247 | = Dyne-Second/Sq Centimeter |
| | × 2470. | = Dyne-Second/Sq Meter |
| | × 1.6 | = Dyne-Second/Sq Inch |
| | × 230. | = Dyne-Second/Sq Foot |
| | × .247 | = Gram-Mass/Centimeter-Second |
| | × 14.9 | = Gram-Mass/Centimeter-Minute |
| | × 890. | = Gram-Mass/Centimeter-Hour |
| | × .000247 | = Kilogram-Mass/Centimeter-Second |
| | × .0247 | = Kilogram-Mass/Meter-Second |
| | × 1.49 | = Kilogram-Mass/Meter-Minute |
| | × 89. | = Kilogram-Mass/Meter-Hour |
| | × .00252 | = Kilogram-Force-Second/Sq Meter |
| | × .247 | = Poise |
| | × .00556 | = Pound-Force-Second/Sq Meter |
| | × .5/o359 | = Pound-Force-Second/Sq Inch |
| | × .000517 | = Pound-Force-Second/Sq Foot |
| | × .7/o6 | = Pound-Force-Minute/Sq Inch |
| | × .5/o862 | = Pound-Force-Minute/Sq Foot |
| Pound-Mass/Foot-Minute | × .5/o556 | = Pound-Mass/Centimeter-Second |
| | × .00138 | = Pound-Mass/Inch-Second |
| | × .0166 | = Pound-Mass/Foot-Second |
| | × .000327 | = Pound-Mass/Centimeter-Minute |
| | × .0834 | = Pound-Mass/Inch-Minute |
| | × .0019 | = Pound-Mass/Centimeter-Hour |
| | × 5. | = Pound-Mass/Inch-Hour |
| | × 60. | = Pound-Mass/Foot-Hour |
| | × .5/o556 | = Poundal-Second/Sq Centimeter |
| | × .00138 | = Poundal-Second/Sq Inch |
| | × .0166 | = Poundal-Second/Sq Foot |
| | × .000327 | = Poundal-Minute/Sq Centimeter |
| | × .0834 | = Poundal-Minute/Sq Inch |
| | × 1.0 | = Poundal-Minute/Sq Foot |
| | × .0019 | = Poundal-Hour/Sq Centimeter |
| | × 5. | = Poundal-Hour/Sq Inch |
| | × 60. | = Poundal-Hour/Sq Foot |
| Pound-Mass/Foot-Second | × 1488. | = Centipoise |
| | × 14.8 | = Dyne-Second/Sq Centimeter |
| | × 148000. | = Dyne-Second/Sq Meter |
| | × 96. | = Dyne-Second/Sq Inch |
| | × 13800. | = Dyne-Second/Sq Foot |
| | × 14.8 | = Gram-Mass/Centimeter-Second |
| | × 894. | = Gram-Mass/Centimeter-Minute |
| | × 53500. | = Gram-Mass/Centimeter-Hour |

| | | |
|---|---|---|
| Pound-Mass/Foot-Second | × .0148 | = Kilogram-Mass/Centimeter-Second |
| | × 1.48 | = Kilogram-Mass/Meter-Second |
| | × 89.4 | = Kilogram-Mass/Meter-Minute |
| | × 5350. | = Kilogram-Mass/Meter-Hour |
| | × .151 | = Kilogram-Force-Second/Sq Meter |
| | × 14.8 | = Poise |
| | × .334 | = Pound-Force-Second/Sq Meter |
| | × .000216 | = Pound-Force-Second/Sq Inch |
| | × .0311 | = Pound-Force-Second/Sq Foot |
| | × .5/o36 | = Pound-Force-Minute/Sq Inch |
| | × .000517 | = Pound-Force-Minute/Sq Foot |
| Pound-Mass/Foot-Second | × .3/o328 | = Pound-Mass/Centimeter-Second |
| | × .0832 | = Pound-Mass/Inch-Second |
| | × .0196 | = Pound-Mass/Centimeter-Minute |
| | × 5. | = Pound-Mass/Inch-Minute |
| | × 60. | = Pound-Mass/Foot-Minute |
| | × .116 | = Pound-Mass/Centimeter-Hour |
| | × 300. | = Pound-Mass/Inch-Hour |
| | × 3600. | = Pound-Mass/Foot-Hour |
| | × .3/o328 | = Poundal-Second/Sq Centimeter |
| | × .0832 | = Poundal-Second/Sq Inch |
| | × 1.0 | = Poundal-Second/Sq Foot |
| | × .0196 | = Poundal-Minute/Sq Centimeter |
| | × 5. | = Poundal-Minute/Sq Inch |
| | × 60. | = Poundal-Minute/Sq Foot |
| | × .116 | = Poundal-Hour/Sq Centimeter |
| | × 300. | = Poundal-Hour/Sq Inch |
| | × 3600. | = Poundal-Hour/Sq Foot |
| Pound-Mass-Foot/Second Squared | × 1.0 | = Pound-Force |
| Pound-Mass/Inch-Hour | × 4.96 | = Centipoise |
| | × .0496 | = Dyne-Second/Sq Centimeter |
| | × 496. | = Dyne-Second/Sq Meter |
| | × .32 | = Dyne-Second/Sq Inch |
| | × 46.1 | = Dyne-Second/Sq Foot |
| | × .0496 | = Gram-Mass/Centimeter-Second |
| | × 2.98 | = Gram-Mass/Centimeter-Minute |
| | × 178. | = Gram-Mass/Centimeter-Hour |
| | × .4/o496 | = Kilogram-Mass/Centimeter-Second |
| | × .00496 | = Kilogram-Mass/Meter-Second |
| | × .298 | = Kilogram-Mass/Meter-Minute |
| | × 17.8 | = Kilogram-Mass/Meter-Hour |
| | × .3/o505 | = Kilogram-Force-Second/Sq Meter |
| | × .0496 | = Poise |
| | × .2/o111 | = Pound-Force-Second/Sq Meter |
| | × .6/o72 | = Pound-Force-Second/Sq Inch |
| | × .000103 | = Pound-Force-Second/Sq Foot |
| | × .7/o12 | = Pound-Force-Meter/Sq Inch |
| | × .5/o172 | = Pound-Force-Meter/Sq Foot |
| Pound-Mass/Inch-Hour | × .5/o109 | = Pound-Mass/Centimeter-Second |
| | × .3/o278 | = Pound-Mass/Inch-Second |
| | × .00333 | = Pound-Mass/Foot-Second |
| | × .4/o656 | = Pound-Mass/Centimeter-Minute |
| | × .0167 | = Pound-Mass/Inch-Minute |
| | × .2 | = Pound-Mass/Foot-Minute |
| | × .000389 | = Pound-Mass/Centimeter-Hour |
| | × 12. | = Pound-Mass/Foot-Hour |
| | × .5/o109 | = Poundal-Second/Sq Centimeter |
| | × .3/o278 | = Poundal-Second/Sq Inch |
| | × .00333 | = Poundal-Second/Sq Foot |
| | × .4/o656 | = Poundal-Minute/Sq Centimeter |
| | × .0167 | = Poundal-Minute/Sq Inch |
| | × .2 | = Poundal-Minute/Sq Foot |
| | × .000389 | = Poundal-Hour/Sq Centimeter |
| | × 1.0 | = Poundal-Hour/Sq Inch |
| | × 12. | = Poundal-Hour/Sq Foot |
| Pound-Mass/Inch-Minute | × 298. | = Centipoise |

| | | |
|---|---|---|
| Pound-Mass/Inch-Minute | × 2.98 | = Dyne-Second/Sq Centimeter |
| | × 29800. | = Dyne-Second/Sq Meter |
| | × 19.2 | = Dyne-Second/Sq Inch |
| | × 2760. | = Dyne-Second/Sq Foot |
| | × 2.98 | = Gram-Mass/Centimeter-Second |
| | × 1.78 | = Gram-Mass/Centimeter-Minute |
| | × 10700. | = Gram-Mass/Centimeter-Hour |
| | × .00298 | = Kilogram-Mass/Centimeter-Second |
| | ×.298 | = Kilogram-Mass/Meter-Second |
| | × 17.8 | = Kilogram-Mass/Meter-Minute |
| | × 1070. | = Kilogram-Mass/Meter-Hour |
| | × .0303 | = Kilogram-Force-Second/Sq Meter |
| | × 2.98 | = Poise |
| | × .067 | = Pound-Force-Second/Sq Meter |
| | × .4/o432 | = Pound-Force-Second/Sq Inch |
| | × .00622 | = Pound-Force-Second/Sq Foot |
| | × .6/o72 | = Pound-Force-Minute/Sq Inch |
| | × .3/o103 | = Pound-Force-Minute/Sq Foot |
| Pound-Mass/Inch-Minute | × .4/o656 | = Pound-Mass/Centimeter-Second |
| | × .0166 | = Pound-Mass/Inch-Second |
| | × .2 | = Pound-Mass/Foot-Second |
| | × .00393 | = Pound-Mass/Centimeter-Minute |
| | × 12. | = Pound-Mass/Foot-Minute |
| | × .0233 | = Pound-Mass/Centimeter-Hour |
| | × 60. | = Pound-Mass/Inch-Hour |
| | × 720. | = Pound-Mass/Foot-Hour |
| | × .4/o656 | = Poundal-Second/Sq Centimeter |
| | × .0166 | = Poundal-Second/Sq Inch |
| | × .2 | = Poundal-Second/Sq Foot |
| | × .00393 | = Poundal-Minute/Sq Centimeter |
| | × 1.0 | = Poundal-Minute/Sq Inch |
| | × 12. | = Poundal-Minute/Sq Foot |
| | × .0233 | = Poundal-Hour/Sq Centimeter |
| | × 60. | = Poundal-Hour/Sq Inch |
| | × 720. | = Poundal-Hour/Sq Foot |
| Pound-Mass/Inch-Second | × 17800. | = Centipoise |
| | × 178. | = Dyne-Second/Sq Centimeter |
| | × 1780000. | = Dyne-Second/Sq Meter |
| | × 1150. | = Dyne-Second/Sq Inch |
| | × 166000. | = Dyne-Second/Sq Foot |
| | × 178. | = Gram-Mass/Centimeter-Second |
| | × 10700. | = Gram-Mass/Centimeter-Minute |
| | × 643000. | = Gram-Mass/Centimeter-Hour |
| | × .178 | = Kilogram-Mass/Centimeter-Second |
| | × 17.8 | = Kilogram-Mass/Meter-Second |
| | × 1070. | = Kilogram-Mass/Meter-Minute |
| | × 64300. | = Kilogram-Mass/Meter-Hour |
| | × 1.82 | = Kilogram-Force-Second/Sq Meter |
| | × 178. | = Poise |
| | × 4.01 | = Pound-Force-Second/Sq Meter |
| | × .00259 | = Pound-Force-Second/Sq Inch |
| | × .373 | = Pound-Force-Second/Sq Foot |
| | × .4/o43 | = Pound-Force-Minute/Sq Inch |
| | × .0062 | = Pound-Force-Minute/Sq Foot |
| | × .00394 | = Pound-Mass/Centimeter-Second |
| Pound-Mass/Inch-Second | × 12. | = Pound-Mass/Foot-Second |
| | × .236 | = Pound-Mass/Centimeter-Minute |
| | × 60. | = Pound-Mass/Inch-Minute |
| | × 720. | = Pound-Mass/Foot-Minute |
| | × 1.4 | = Pound-Mass/Centimeter-Hour |
| | × 3600. | = Pound-Mass/Inch-Hour |
| | × 4325. | = Pound-Mass/Foot-Hour |
| | × .00394 | = Poundal-Second/Sq Centimeter |
| | × 1.0 | = Poundal-Second/Sq Inch |
| | × 12. | = Poundal-Second/Sq Foot |
| | × .236 | = Poundal-Minute/Sq Centimeter |

# CONVERSION FACTORS

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|---|---|---|
| Pound-Mass/Inch-Second | × 60. | = Poundal-Minute/Sq Inch |
| | × 720. | = Poundal-Minute/Sq Foot |
| | × 1.4 | = Poundal-Hour/Sq Centimeter |
| | × 3600. | = Poundal-Hour/Sq Inch |
| | × 4325. | = Poundal-Hour/Sq Foot |
| Pound-Mass/Second-Foot | × 1488. | = Centipoise |
| Pound/Mile | × .11048 | = Grain/Inch |
| | × .0028185 | = Gram/Centimeter |
| | × .28185 | = Kilogram/Kilometer |
| | × .00028185 | = Kilogram/Meter |
| | × .00018939 | = Pound/Foot |
| | × .00056818 | = Pound/Yard |
| Pound/Million Gallon | × .00700 | = Grain/Gallon |
| | × .11982 | = Part/Million |
| Pound-Mole | × 1.986 | = Btu IT/°R |
| | × .7302 | = Cuft × Atmos/°R |
| | × 1.314 | = Cuft × Atmos/°K |
| | × 21.85 | = Cuft × In Hg/°R |
| | × 555.0 | = Cuft × mm Hg/°R |
| | × 998.9 | = Cuft × mm Hg/°K |
| | × 1.986 | = Chu/°K |
| | × 10.73 | = Cuft × psi Abs/°R |
| | × 1545.0 | = Cuft × psf Abs/°R |
| | × .0007805 | = HP-Hr/°R |
| | × .0005819 | = Kwhr/°R |
| Pound-Mole/Cubic Foot | × 1.0 | = Concentration Unit |
| Pound-Mole (Gas 60F-30"HG) | × 379. | = Standard Cubic Foot |
| Pound-Mole/Hour-Square Foot | × 1.0 | = Molar Mass Velocity Unit |
| | × 1.0 | = Molar Rate Liquid Flow Unit |
| Pound/Pound | × 1.0 | = Humidity Unit |
| Pound/Pound-Mole | × 1.0 | = Molecular Weight Unit |
| Pound/Square Foot (psf) | × 13.14 | = Air Height Feet 62F |
| | × .000472543 | = Atmosphere cm-32F |
| | × .0359131 | = Centimeter Mercury Height 32F |
| | × 478.803 | = Dyne/Square Centimeter |
| | × 29.1 | = Feet/Second |
| | × .488241 | = Gram/Square Centimeter |
| | × .014139 | = Inch Mercury Height 32F |
| | × .000488241 | = Kilogram/Square Centimeter |
| | × .48824 | = Kilogram/Square Decimeter |
| | × 4.88241 | = Kilogram/Square Meter |
| | × .04788 | = Kilopascal |
| | × 47.88 | = Newton/Square Meter |
| | × .1111 | = Ounce/Square Inch |
| | × .107638 | = Pound/Square Centimeter |
| | × .00694445 | = Pound/Square Inch |
| | × 10.76387 | = Pound/Square Meter |
| | × .010763 | = Pound/Square Millimeter |
| | × 9. | = Pound/Square Yard |
| | × .0005 | = Ton Short/Square Foot |
| | × .01602 | = Water Feet Height 39.1F |
| | × .19245 | = Water Inch Height 39.1F |
| Pound/Square Foot/Year | × 133.8 | = Mg/Sq Decimeter/Day |
| Pound/Square Inch (psi) | × 1893. | = Air Height Feet 62F |
| | × .0680462 | = Atmosphere 76 cm-32F |
| | × .0006895 | = Barye |
| | × 5.17149 | = Centimeter Mercury 32F |
| | × 68947.6 | = Dyne/Square Centimeter |
| | × 349. | = Feet/Second |
| | × 2.3114 | = Feet Water 70F |
| | × 2.30947 | = Feet Water 62F |
| | × 70.307 | = Gram/Square Centimeter |
| | × 33.672 | = Inch Red Oil 70F |
| | × 27.70 | = Inch Water 15C |
| | × 27.7369 | = Inch Water 70F |
| | × .0703067 | = Kilogram/Square Centimeter |

| | | |
|---|---|---|
| Pound/Square Inch (psi) | × 703.06 | = Kilogram/Square Meter |
| | × .00070306 | = Kilogram/Square Millimeter |
| | × 6.894757 | = Kilopascal |
| | × 2.0438 | = Mercury Inch 70F |
| | × 2.036 | = Mercury Inch Height 0C |
| | × 2.0416 | = Mercury Inch Height 62F |
| | × 51.7147 | = Mercury Millimeter Height |
| | × .06895 | = Megabar |
| | × .06895 | = Megadyne/Square Centimeter |
| | × .7037 | = Meter Water 15C |
| | × .689476 | = Newton/Square Meter |
| | × 2304. | = Ounce/Square Foot |
| | × 144. | = Pound/Square Foot |
| | × .07200 | = Ton Short/Square Foot |
| Pound (1000)/Square Inch | × .70307 | = Kilogram/Square Millimeter |
| Pound/Square Inch Absolute (psia) | − 14.7 | = psi Gage Reading |
| Pound/Square Inch Gage Reading | + 14.7 | = Pound/Square Inch Absolute |
| Pound (Sweden) | × .9377 | = Pound Avoir |
| Pound-Troy | × 22.816 | = Cubic Inch Water 62F |
| | × 210.6514 | = Dram Avoir |
| | × 96. | = Dram Troy |
| | × 5760. | = Grain Apoth-Troy-Avoir |
| | × 373.242 | = Gram |
| | × .37324177 | = Kilogram |
| | × 373241.77 | = Milligram |
| | × 12. | = Ounce-Apoth-Troy |
| | × 13.1657 | = Ounce Avoir |
| | × 240. | = Pennyweight Troy |
| | × .8228571 | = Pound Avoir |
| | × 288. | = Scruple |
| | × .3/o3673 | = Ton Long |
| | × .3/o3732 | = Ton Metric |
| | × .3/o4114 | = Ton Short |
| Pound/Yard | × 194.444 | = Grain/Inch |
| | × 4.96054 | = Gram/Centimeter |
| | × 12.6 | = Gram/Inch |
| | × 496.054 | = Kilogram/Kilometer |
| | × .496054 | = Kilogram/Meter |
| | × .33333 | = Pound/Foot |
| | × .02778 | = Pound/Inch |
| | × .78571 | = Ton Long/Mile |
| | × .45605 | = Ton Metric/Kilometer |
| | × .8800 | = Ton Short/Mile |
| Pound/1000 Yard | × .4960 | = Kilogram/Kilometer |
| | × 1.0936 | = Pound/Kilometer |
| Power | × Time | = Work |
| | × Time | = Force |
| Power Factor: Single Ph × Amp × Volt | × .001 | = Kilowatt AC |
| 2 Ph-4 Wire × Amp × Volt | × .002 | = Kilowatt AC |
| 3 Ph × Amp × Volt | × .00173 | = Kilowatt AC |
| Single Ph × Amp × Volt × % Eff | × .00134 | = HP Elec AC |
| 2 Ph-4 Wire × Amp × Volt × % Eff | × .00268 | = HP Elec AC |
| 3 Ph × Amp × Volt × % Eff | × .002319 | = HP Elec AC |
| Power Factor (PF) | × Impedance | = Ohm |
| × Ampere | × Volt | = Watt (True Power) |
| Power Line Formulae: Area in Circular Mils | = A | = DWT/PE |
| Distance in Feet | = D | = APE/WT |
| Volts Squared | = E | = DWT/PA |
| Percent Loss | = P | = DWT/AE |
| Watts | = W | = APE/DT |
| Constant = $1080/PF^2$ | = T | = APE/DW |
| Power Saw: Cutting 2×4, 2×6 Studs: | = .003 | = Saw-Hour/Board-Foot |
| Power Shovel (3/4 Yd) Work: Cubic Yard | × .0075 | = Hour Work Excavating |
| (1-1/4 Yd) Work: Cubic Yard | × .0045 | = Hour Work Excavating |
| (1-1/2 Yd) Work: Cubic Yard | × .004 | = Hour Work Excavating |
| (1-3/4 Yd) Work: Cubic Yard | × .0035 | = Hour Work Excavating |

# CONVERSION FACTORS

| | | | |
|---|---|---|---|
| Power Shovel (2 Yd) Work: Cubic Yard | | × .003 | = Hour Work Excavating |
| Lost Time Moving and Waiting on Trucks | | | = Digging Time |
| Praseodymium: (Pr): #59:140.92 AW: | | | |
| Press Brake: Tons to Form × Die Width Inch | | | = Part Length Inch × Thickness Inch Squared |
| Pressure | | × Area | = Total Force |
| Prestone: Cubic Foot | | × 68. | = Pound |
| Gallon | | × 9. | = Pound |
| Primary Ampere × Primary Turns | | | = Secondary Ampere × Secondary Turns |
| Primary Voltage × Primary Ampere | | | = Secondary Voltage × Secondary Ampere |
| Primary Watt | | | = Secondary Watt |
| Principal × Rate | | × Time | = Interest |
| × Rate × Time | | + Principal | = Amount |
| Prism: Base Area | | × Height | = Cubic Volume |
| Base Perimeter | | × Height | = Lateral Area |
| Lateral Edge or Element Length | | × Section Area | = Volume |
| Lateral Edge or Element Length | | × Section Perimeter | = Lateral Area |
| Number Sides × Side | | × Height | = Lateral Area |
| Number Sides × Side × Radius × Height | | × .5 | = Volume |
| Probability an Event May Happen | | × Total Trials | = Number of Good Trials |
| Productivity Factor = Barrel/Day divided by Static minus Flowing Pressure | | | |
| Promethium: (Pr): #61:145.00 AW: | | | |
| Propane: 30Hg60F Gas: | Boiling Point | = 415.89 | = Degree R |
| | Critical Pressure | = 617. | = psi |
| | Critical Temperature | = 665.89 | = Degree R |
| | Cuft | × 2526. | = Btu |
| | | × 23.87 | = Cuft Air to Burn |
| | | × .118 | = Pound |
| | Cuft Mixed Air-Gas | × 100.47 | = Btu Gross Combustion Heat |
| | Density: Cuft | × .1162 | = Pound |
| | Flame Propogation 1" Tube | 2.69 | = fps Max Rate |
| | Flame Temperature | = 3710. | = Degree F Max |
| | Inflammability | = 9.5 | = % Gas Upper Limit |
| | | = 2.4 | = % Gas Lower Limit |
| | Mean Coeff Expansion | = .00143 | = (0-50F) |
| | | = .00180 | = (50-100F) |
| | Melting Point | = 153.79 | = Degree R |
| | Molecular Weight | = 44.06 | |
| | % @ Flame Propagation Rate | | = 4.71 |
| | Pound | × 21692. | = Btu |
| | | × 183. | = Btu Heat Vaporization @ BP |
| | | × 15.712 | = Pound Air for Combustion |
| | Specific Gravity | = 1.522 | (Air = 1) |
| | Specific Heat: Cuft | × .0566 | = Btu |
| | Pound | × .390 | = Btu |
| Propane: 30Hg60F Liquid: | Degree API | = 147. | |
| | Gallon | × 88806. | = Btu |
| | | × 91300. | = Btu Heat Vaporization @ BP |
| | | × 36.52 | = Cuft |
| | | × 4.23 | = Pound |
| | Pound | × 20973. | = Btu |
| | | × 8.61 | = Cuft |
| | Specific Gravity | = .508 | |
| | Vapor Pressure | = 92.4 | = psi Gage 60F |
| | | = 128.9 | = psi Gage 80F |
| | | = 175. | = psi Gage 100F |
| | | = 225. | = psi Gage 120F |
| Propeller Horsepower | | × 550. | = Pound Thrust × Feet/Second |
| Propylene Gas (60F-30"Hg) | | = 1.452 | = Specific Gravity (Air = 1) |
| | Cubic Foot | × 2290. | = Btu Gross Combustion Heat |
| | | × 21.8 | = Cuft Air for Combustion |
| | | × .112 | = Pound |
| | Cuft Mixed Air-Gas | × 103.55 | = Btu Gross Combustion Heat |
| | Flame Temperature | = 3800. | = Degree F Maximum |
| | Pound | × 21032. | = Btu Gross Combustion Heat |
| | | × 8.99 | = Cubic Feet |
| | | × 14.820 | = Pound Air for Combustion |

Protactinium: (Pa): #91:231.00 AW:
Pulley: Belted: Driven Pulley Diameter _____ × Speed Ratio = Driven Pulley Diameter
Driver Pully Diameter/Driven Pulley Diameter = Speed Ratio
rpm of Driver Pulley _____ × Speed Ratio = rpm of Driven Pulley
Diam. Inch (Motor) × Motor rpm = Driven Pulley Diam Inch × Driven Machine rpm
Diameter Inch × rpm _____ × .261789 = Feet/Minute (Belt Speed)
Rope: Number Stands _____ × Effort = Resistance
Pump _____ = 50 to 85% = Efficiency
Pump: Bbl/Day × psi Pump Disch Press _____ × .4/o17 = HP Input to Sucker Rod
Bbl Water/Day × Ft Pump Depth _____ × .007378 = HP Input to Sucker Rod
Feet Head × gpm × spg _____ × .0002525 = HP
Plunger: Inch Stroke × spm _____ × K = Bbl(42)/Day
Diameter Inch _____ × .554 - .437 = K (Use Above)
psi Discharge × gpm × spg _____ × .0005831 = HP
psi Head Equiv to Atmos Press _____ - Vapor Press to Water Temp = Max Pump Lift
Steam: spm × Sqin Water Cylinder × Inch Stroke × .26 = Gal/Hour Discharge
Pump (100% Eff) Head in Feet × gpm _____ × .00025 = Horsepower
Pump: Mud: psi Standpipe Circ Press × gpm _____ × .00058343 = Horsepower Output
Pumping Oil: Stripper: Year _____ × 60. = Barrel/Acre (Efficiency)
Puncheon _____ × 84. = Gallon Liquid US
× 70. = Gallon Liquid British
× .66 = Pipe
× 2. = Tierce
× .333 = Tun
× 84. = Wine Gallon
Punch Press: Part Length Inch × Thickness Inch × Ton Shear Strength = Tons to Blank Part
Pyramid: Base Area × Vertical Height _____ × .3333 = Volume
Base Perimeter × Slant Height _____ × .5 = Lateral Area
Inscribed Radius × Height × Side × Number Sides × .1666 = Volume

Quadrant: _____ × .25 = Circumference Q
× 90. = Degree
× 5400. = Minute
× 1.570797 = Radian
× .25 = Revolution
× 324000. = Second
Quadrant: Chord Squared _____ × .3927 = Area
Radius Squared _____ × .7854 = Area
Quart Dry British _____ × 1.0320 = Quart Dry US
Quart Dry US _____ × .03125 = Bushel US Std Struck
× 1101.2 = Cubic Centimeter
× 1.101198 = Cubic Decimeter
× .03889 = Cubic Foot
× 67.200625 = Cubic Inch
× .001440 = Cubic Yard
× .110120 = Decaliter
× .25 = Gallon Dry US
× .29091 = Gallon Liquid US
× 1.1012 = Liter
× 37.24 = Ounce Fluid US Apoth
× .125 = Peck
× 2. = Pint
× .969 = Quart Dry British
× 1.16365 = Quart Liquid US
Quart Liquid British _____ × .25 = Gallon Liquid British
× 1.13650 = Liter
× 1.2003 = Quart Liquid US
Quart Liquid US _____ × .007937 = Barrel (31.5)
× .02686 = Bushel US Std Struck
× 946.331 = Cubic Centimeter
× .946331 = Cubic Decimeter
× .03342 = Cubic Foot
× 57.75 = Cubic Inch
× .001238 = Cubic Yard
× 4.0 = Cup
× 256. = Dram Fluid

| | | |
|---|---|---|
| Quart Liquid US | × .21484 | = Gallon Dry US |
| | × .25 | = Gallon Liquid US |
| | × 8. | = Gill |
| | × .946331 | = Liter |
| | × 946.33 | = Milliliter |
| | × 15360. | = Minim |
| | × 32.0 | = Ounce Fluid US Apoth |
| | × 2. | = Pint Liquid US |
| | × .85937 | = Quart Dry US |
| | × .0059523 | = Barrel (42) |
| | × .000946358 | = Cubic Meter |
| | × .01865 | = Cwt |
| | × .0946332 | = Decaliter |
| | × .2081483 | = Gallon Liquid British |
| | × 944.73096 | = Gram Water 62F |
| | × .00946332 | = Hectoliter |
| | × 2.0828 | = Pound Water 62F |
| | × .0009313 | = Ton Long Water 39.1F |
| | × .0009298 | = Ton Long Water 62F |
| | × .00104138 | = Ton Short Water 62F |
| Quarter | × 8. | = Bushel |
| | × 2.909 | = Hectoliter |
| Quarter Avoirdupois | × 28. | = Pound Avoir |
| | × 2. | = Stone |
| | × .0125 | = Ton Long |
| | × .014 | = Ton Short |
| Quarter Cloth | × 9. | = Inch |
| | × 4. | = Nail |
| Quarter Long | × 12.70 | = Kilogram |
| | × 28. | = Pound |
| | × .0125 | = Ton Long |
| | × .014 | = Ton Short |
| Quarter-Section | × .25 | = Section |
| | × .25 | = Square Mile |
| | × .007 | = Township |
| Quarter Short | × 25. | = Pound |
| | × .0125 | = Ton Short |
| | × .01116 | = Ton Long |
| Quarter (25 Cent Piece) | = 6.25 | = Gram |
| Quartz: Linear Expansion: Inch | × .3 | = Micro-Inch/Degree F |
| Quintal | × 1(5/o). | = Gram |
| | × 1.96841 | = Hundredweight Long |
| | × 2.20462 | = Hundredweight Short |
| | × 100. | = Kilogram |
| | × 200.462 | = Pound Avoirdupois |
| | × 267.92 | = Pound Troy |
| | × 1543235.639 | = Grain |
| | × 1(5/o). | = Gram Water 4C |
| | × 1000. | = Hectogram |
| | × 100. | = Liter Water |
| | × 3215.0742 | = Ounce Apoth-Troy |
| | × 3527.3957 | = Ounce Avoir |
| | × 178.57 | = Pound Austrian |
| | × 244.19 | = Pound Russian |
| | × 235.25 | = Pound Sweden |
| | × .09842 | = Ton Long US |
| | × .1 | = Ton Metric |
| | × .11023 | = Ton Short US |
| | × 200. | = Zollpfund |
| Quintillion | = 1(18/o). | = Units |
| Quire | × .048 | = Long Ream |
| | × .05 | = Ream |
| | × 24. | = Sheet |
| | × 25. | = Sheet (Sometimes Used) |

## R

| | | |
|---|---|---|
| Radian | × .159155 | = Circle |

| | | |
|---|---|---|
| Radian | × .159155 | = Circumference |
| | × 57.2957795131 | = Decimal Degree |
| | × 57°17'44.8" | = Degree-Minute-Second |
| | × 63.662 | = Grade |
| | × 206265. | = Inch |
| | × 3437.75 | = Minute |
| | × .159155 | = Revolution |
| | × .636619 | = Quadrant |
| | × 206265. | = Second |
| Radian/Second | × 57.29 | = Degree/Second |
| | × 9.549 | = Revolution/Minute |
| | × .159155 | = Revolution/Second |
| Radian/Second/Second | × 573. | = Revolution/Minute/Minute |
| | × 9.549 | = Revolution/Minute/Second |
| | × .1592 | = Revolution/Second/Second |
| Radiation Factor 0-200C | = 1.0 | = Emissivity 0-200C (See) |
| Radiation: Hot Air: Total Pipe Area | × .5416 | = Steam Radiation Surface |
| In Watts/Sqin Cast Iron Surface | = .8/o92 (Hot Body °K⁴ - Ambientor Wall °K⁴) | |
| In Watts/Sqin Steel Surface | = .7/o2576 (Hot Body °K⁴ - Ambientor Wall °K⁴) | |
| In Watts/Sqin Surface = .10/o368 (Emissivity) (Hot Body °K⁴ - Ambientor Wall °K⁴) | | |
| Radio-Phonograph | = 175 | = Watt Avg Use |
| Radium: (Ra): #88:226.05 AW: | | |
| Radon: (Rn): #86:222. AW: | | |
| Rainfall (20-30" Annual): (Annual Inch | × .25) - 3.5 | = Inch Runoff (20-100 SqMi) |
| (30-50" Annual): (Annual Inch | × .6) - 12.5 | = Inch Runoff (20-100 SqMi) |
| Range: 1 Casing: Joint | × 23.0 | = Feet Average Length |
| 2 Casing: Joint | × 30.0 | = Feet Average Length |
| 3 Casing: Joint | × 38.0 | = Feet Average Length |
| 1 Tubing: Joint | × 21.5 | = Feet Average Length |
| 2 Tubing: Joint | × 31.5 | = Feet Average Length |
| Rankine Degree | - 459.69 | = Fahrenheit Degree |
| | × 1.8 | = Kelvin Degree |
| Rate | × Time | = Distance |
| Rate × Principal | × Time | = Interest |
| × Principal × Time | + Principal | = Amount |
| Ream | × 20. | = Quire |
| | × 480. | = Sheet |
| Ream: Long | × 500. | = Sheet |
| Perfect | × 516. | = Sheet |
| Reaumur Degree | × 1.25 | = Centigrade Degree |
| × 1.25 | + 273.16 | = Kelvin Degree |
| Rectangle: Height | × Base | = Area |
| Rectangular Tank: L × W × D in Feet | × .1781 | = Barrel (42) |
| | × 1.0 | = Cubic Feet |
| | × 7.4805 | = Gallon Liquid US |
| L × W × D in Inch | × .0001031 | = Barrel (42) |
| | × .000579 | = Cubic Feet |
| | × .00433 | = Gallon Liquid US |
| Red | = 7000. | = Angstrom |
| | = 27.5 | = Micro-Inch |
| Red Oil (Min. Seal Spg. .827-70F): Inch | × .0609 | = Inch Height Mercury 70F |
| | × .827 | = Inch Height Water 70F |
| | × .4788 | = Ounce/Square Inch |
| | × .0298 | = Pound/Square Inch |
| Refrigeration: Btu Heat Load × Hrs Operated | × .5/o34722 | = Total Short Ton Load |
| Cold Storage: Men Working | = 600 to 1000 | = Btu/Hr/Person |
| Horsepower | × 42.4 | = Btu/Minute |
| Up to .5 HP Motor in Stg Space | = 4250. | = Btu/Hr/HP |
| .5 to 3 HP Motor in Stg Space | = 3700. | = Btu/Hr/HP |
| Over 3 HP Motor in Stg Space | = 2950. | = Btu/Hr/HP |
| Performance Coeff | × HP/Ton | = 4.71 |
| Refrigeration Ton | × 1.0 | = Refrigeration Short Ton |
| = 144 Btu/Pound | × 2000. | = 288000 Btu/Short Ton |
| Standard | × 288000. | = Btu |
| | × 200. | = Btu/Minute |
| Commercial | × 288000. | = Btu/Day |

| | | |
|---|---|---|
| Refrigeration Ton Commercial | × 12000. | = Btu/Hour |
| | × 144. | = Btu Loss/Pound Ice/Hour |
| | × 83.33 | = Pound Ice Lost/Hour |
| Refrigeration Ton/Day | × 200. | = Btu/Minute (Effect) |
| Refrigerator: | = 150 | = Watt Avg Use |
| Reinforcing Rod: Sqin Cross Section | × 3.4 | = Pound/Linear Feet |
| Rep | × 83.8 | = Erg Absorbed/Gram of Air |
| | × 83.8 | = Erg/Gram |
| | × 1.0 | = Roentgen Physical Equivalent |
| Repressuring: Stripper: Years | × 200. | = Bbls/Acre (Efficiency) |
| Resistance: Aluminum: (K Value) | = 17.7 | = Ohm/Mil-Foot |
| Copper: (K Value) | = 10.4 | = Ohm/Mil-Foot |
| Manganin: (K Value) | = 280. | = Ohm/Mil-Foot |
| Nichrome: (K Value) | = 660. | = Ohm/Mil-Foot |
| Silver: (K Value) | = 9.74 | = Ohm/Mil-Foot |
| Specific, or Resistivity: | = K | = Ohm/Mil-Foot |
| Revolution | × 360. | = Degree |
| | × 21600. | = Minute |
| | × 4. | = Quadrant |
| | × 6.283185 | = Radian |
| | × 1296000. | = Second |
| Revolution/Minute | × 6. | = Degree/Second |
| | × .1047 | = Radian/Second |
| | × .01667 | = Revolution/Second |
| Revolution/Minute/Minute | × .001745 | = Radian/Sec/Sec |
| | × .01667 | = Revolution/Min/Sec |
| | × .0002778 | = Revolution/Sec/Sec |
| Revolution/Minute/Second | × .1047 | = Radian/Sec/Sec |
| | × 60. | = Revolution/Min/Min |
| | × .01667 | = Revolution/Sec/Sec |
| Revolution/Second | × 360. | = Degree/Second |
| | × 6.283 | = Radian/Second |
| | × 60. | = Revolution/Minute |
| Revolution/Second/Second | × 6.283 | = Radian/Sec/Sec |
| | × 3600. | = Revolution/Min/Min |
| | × 60. | = Revolution/Min/Sec |
| Reyn | × 69(5/o). | = Centipoise |
| | × 1.0 | = Lb-Force-Second/Sq Inch |
| Reyn × Density in lb-sec Squared/Inch 4th Power | | = Sqin/Second |
| Rhe | × Centipoise | = .01 |
| | × Dyne-Sec/Sqcm | = 1.0 |
| | × Gram-Mass/Cm-Sec | = 1.0 |
| | × Poise | = 1.0 |

Rhenium: (Re): #75:186.31 AW
Rhodium: (Rh): #45:102.91 AW
Rhomboid: Quadrilateral with Opposite Sides and Angles Equal.

| | | |
|---|---|---|
| Rhombus: Large × Small Diagonal | × .5 | = Area |

Quadrilateral with Sides Equal and Parallel, No Right Angles.

| | | |
|---|---|---|
| Ring: Circle: Large Diam Squared Minus Small Diam Squared | | × .7854 = Area |
| Large Diam Squared Minus Small Radius Squared | | × 3.1416 = Area |
| Ring: Solid: Large Diameter × Small Diam | × 3.1416 | = Area |
| Large Radius × Small Radius | × 12.5664 | = Area |
| Small Diam Squared × Large Diam | × 2.463 | = Volume |
| Small Radius Squared × Large Rad | × 19.7392 | = Volume |
| Thickness × Mean Radius | × 39.4784 | = Convex Surface Area |
| Thickness Squared × Mean Radius | × 19.7392 | = Volume |
| Roaster: Electric | = 1650 | = Watt Avg Use |
| Rock: Field: Cubic Yard | × 2000. | = Pound |
| Trap: Crushed 3/4": Cubic Yard | × 2600. | = Pound |
| 1-1/2": Cubic Yard | × 2550. | = Pound |
| 3/4": Ton | × .77 | = Cubic Yard |
| 1-1/2": Ton | × .785 | = Cubic Yard |
| Rod | × .165 | = Chain Engineer |
| | × .25 | = Chain Gunter |
| | × .5029 | = Decameter |
| | × 16.5 | = Feet US |

| | | |
|---|---|---|
| Rod | × .025 | = Furlong |
| | × 198. | = Inch |
| | × .005029 | = Kilometer |
| | × 25. | = Link |
| | × 5.02921 | = Meter |
| | × .002714 | = Mile Nautical US |
| | × .003125 | = Mile Statute US |
| | × 1.0 | = Perch-Pole |
| | × 5.5 | = Yard US |
| Roentgen (Ionizing Power) | × 83.8 | = Erg Absorbed/Gram of Air |
| Road | × .25 | = Acre |
| | × 2.5 | = Square Chain Gunter |
| | × 10.117 | = Square Dekameter |
| | × 10890. | = Square Feet |
| | × 1568160. | = Square Inch |
| | × 1012. | = Square Meter |
| | × .0003906 | = Square Mile |
| | × 40. | = Square Perch or Rod |
| | × 1210. | = Square Yard |
| Roofing: Asbestos: Number of Plies | × .005 | = Labor-Hr/Sqft (Summer) |
| | × .006 | = Labor-Hr/Sqft (Winter) |
| | × .2 | = Pound Asbestos Felt/Sqft |
| Square Foot | × .9 | = Pound Asphalt |
| Asphalt: Number of Plies | × .3 | = Pound Asphalt/Sqft |
| | × .25 | = Pound Felt/Square Foot |
| Concrete Deck: Sqft | × .1 | = Pound Asphalt Primer |
| Promenade Tile: Square Feet | × .08 | = Labor-Hour |
| | × 3. | = Pound Composition |
| | × .1 | = Roofer-Hour |
| Slate: Square Feet | × .02 | = Helper-Hour |
| | × .025 to .035 | = Slater-Hr (Curved Area) |
| | × .054 to .064 | = Slater-Hr (Hip-Valley) |
| | × .02 to .03 | = Slater-Hr (Straight Roof) |
| Tar-Gravel or Asphalt: Plies | × .005 | = Labor-Hr/Sqft (Summer) |
| | × .006 | = Labor-Hr/Sqft (Winter) |
| Tar-Gravel: Number of Plies | × .15 | = Pound Felt/Square Foot |
| | × .3 | = Pound Tar/Square Foot |
| Square Feet | × 4.0 | = Pound Gravel |
| Wood Deck: Sqft | × .05 | = Pound Rosin Paper |
| Rope | × 20. | = Feet |
| | × 6.0960 | = Meter |
| Manila: Pounds Load to be Lifted | × 5. | = Pound Safe Tensile Strength |
| 1/4" Dia. (3/4" Cir)(60'/#) | = 600. | = Pound Tensile |
| 3/8" Dia. (1-1/8" Cir)(26.7'/#) | = 1350. | = Pound Tensile |
| 1/2" Dia. (1-1/2" Cir)(15'/#) | = 2650. | = Pound Tensile |
| 3/4" Dia. (2-1/4" Cir)(6.6'/#) | = 5400. | = Pound Tensile |
| Pound Pull × Number Sheaves × (.86 | × Each Sheave) | = Pound Load to Lift |
| Rope: 6×7 Wire: (Diameter in Inch | × 2.38) - .8 | = Pound/Foot |
| | × 10.4) - 3.4 | = Short Ton Work Load |
| 6 × 19 Wire: (Diameter in Inch) | × 2.78) - 1.12 | = Pound/Foot |
| | × 11.6) - 4.45 | = Short Ton Work Load |
| Rope Slings: Lb Safe Load × Safety Factor | = 2. | × psi Tensile × Sine of Angle |
| Rotl | × 7. | = Foot US |
| Rubber: Specific Heat | = .48 | = Btu/Pound/°F |
| Rubidium: (Rb): #37:85.48 AW: | | |
| Run | × 1600. | = Yard/Pound Avoir |
| Ruthenium: (Ru): #44:101.7 AW: | | |

S

| | | |
|---|---|---|
| Sabin | × 1.0 | = Sound Absorption Unit-Total |
| | × 1.0 | = Sqft Total Absorbing Surface |
| Sabin = Absorption Coeff. of Accoustical Material | | × Room Area Sqft |
| Sabin × Seconds Reverberation | × 20. | = Cuft (Room Size) |
| Sack | × 3.0 | = Bushel US Std Struck |
| Sack British | × 3.0 | = Bushel Imperial |
| | × .10911 | = Cubic Meter |
| Sagene | × 7. | = Foot US |

| | | |
|---|---|---|
| Salm | × 8.26 | = Bushel US |
| Salt Water: Spg 1.100-60F: Height Feet | × .477 | = Pound/Square Inch |
| 1.154-60F: Barrel (42) | × 404.25 | = Pound Weight |
| Cubic Feet | × 72. | = Pound Weight |
| Height Feet | × .500 | = Pound/Square Inch |
| 1.200-60F: Height Feet | × .520 | = Pound/Square Inch |
| 1.250-60F: Height Feet | × .542 | = Pound/Square Inch |
| Samarium: (Sm): #62:150.43 AW: | | |
| Sand: Dry: | = 1.44 to 1.76 | = Average Specific Gravity |
| | = 38. | = Degree Natural Slope |
| Cubic Foot | × 89.7 to 110 | = Pound (Range) |
| | × .04 to .05 | = Ton Long (Range) |
| Cubic Yard | × 2422 to 2970 | = Pound |
| | × 1.1 to 1.35 | = Ton Long (Range) |
| Cubic Yard × 4945. | = Diam Inch Squared × Ft of Hole Filled | |
| Diam Inch Squared × Ft Hole Filled | × .0002022 | = Cubic Yard |
| Square Foot | × 2 to 4 | = Ton Long (Support) |
| Pit: Dry: Cubic Foot | × .0455 | = Ton Long |
| River: Dry: Cubic Foot | × .0476 | = Ton Long |
| Specific Heat | = .20 | = Btu/Pound/°F |
| Wet: | = 1.89 to 2.07 | = Average Specific Gravity |
| | = 22. | = Degree Natural Slope |
| Cubic Foot | × 118 to 129 | = Pound |
| Standing Interior Finishes: Square | × 1.25 | = Man-Hr (Plain Hardwood) |
| | × 1.0 | = Man-Hr.(Plain Softwood) |
| | × 1.5 | = Man-Hr (Molded Hardwood) |
| | × 1.25 | = Man-Hr (Molded Softwood) |
| Sandstone: Cubic Yard | × 39 to 44 | = Hundredweight |
| Building Stone: Cubic Foot | × 164. | = Pound |
| Ton | × 12.2 | = Cubic Feet |
| Sashen | × 3.0 | = Arshin |
| | × 7.0 | = Feet US |
| | × 2.1336 | = Meter |
| | × 12.0 | = Tchetvert |
| | × 48.0 | = Vershok |
| Saum | × 150. | = Liter |
| | × 100. | = Maass |
| Saw Blade Thickness Should Be | .001 | = Inch Pulley Diameter |
| Sawdust: Cubic Foot | × 13. | = Pound |
| Saybolt-Furol Second | (See pg. 163) | = Saybolt-Universal Second |
| Saybolt Universal Second | (See pg. 163) | = Centistoke |
| @ 100F | × .0285 | = Engler Degree @ 100F |
| | × .2165 | = Kinematic Centistoke @ 100F |
| | × .8773 | = Redwood #1 Seconds @ 100F |
| | × .10 | = Saybolt-Furol Second |
| Scaffolds: Covered Area in Square Feet | × .033 | = Board-Foot/Foot High |
| Covered Floor Area in Sqft | × 2. | = Plank Board-Feet |
| Dismantling: | = 50% | = Salvable Lumber |
| Board-Feet | × .003 | = Labor-Hour |
| Erecting: Board-Feet | × .016 | = Carpenter-Hour |
| Scandium: (Sc): #21:45.10 AW | | |
| Score | × 20. | = Articles or Units |
| Scruple Apothecaries | × .333 | = Dram Apoth |
| | × .7314286 | = Dram Avoir |
| | × 20. | = Grain Apoth |
| | × 1.2959784 | = Gram |
| | × .0012959 | = Kilogram |
| | × 1295.9784 | = Milligram |
| | × .041666 | = Ounce Apoth |
| | × .0347143 | = Ounce Avoir |
| | × .83333 | = Pennyweight |
| | × .0034722 | = Pound Apoth |
| | × .0028571 | = Pound Avoir |
| Se | × .02451 | = Acre |
| Sea Water (Spg 1.025): Cubic Foot | × 64. | = Pound (Common) |
| Gallon | × 8.55 | = Pound (Common) |

| | | |
|---|---|---|
| Second (sec) | × .6/o7716 | = Circle-Revolution |
| | × Ampere | = Coulomb |
| | × .4/o1157407 | = Day |
| | × .0002778 | = Degree |
| | × .00031 | = Grade |
| | × .0002777 | = Hour |
| | × Watt | = Joule |
| | × 1(8/o). | = Line/Volt |
| | × .01666 | = Minute |
| | × .6/o3805 | = Month (1/12 Year) |
| | × .5/o3087 | = Quadrant |
| | × .5/o484814 | = Radian |
| | × .7/o317 | = Year |
| Second × Volt | × Ampere | = Joule |
| × Volt | × 1(8/o). | = Line |
| × Volt | × Ampere | = Watt-Second |
| × Watt | × 1(7/o). | = Dyne-Centimeter or Erg |
| Second-Foot | × 1.98347 | = Acre-Feet |
| | × 1.0 | = Acre-Inch/Hour |
| | × 86400. | = Cubic Feet/Day |
| | × 1.0 | = Cubic Foot/Second |
| | × 6.23 | = Gallon British/Second |
| | × 646272. | = Gallon Liquid US/Day |
| | × 448.8 | = Gallon Liquid US/Minute |
| | × 7.4805194 | = Gallon Liq US/Second/Day |
| | × .1136 | = Horsepower/Falling Foot |
| | × 448.83116 | = Minute-Gallon |
| | × 40. | = Miner-Inch (Ariz-Calif) |
| | × 38.4 | = Miner-Inch(Colorado) |
| Second-Foot/Day | × 646316.8762 | = Gallon/Day |
| Second-Foot/Year | × 31536000. | = Cubic Feet |
| | × 1.13 | = Feet Deep/Square Mile |
| | × 13.57 | = Inch Deep/Square Mile |
| Second Mean Solar | × 1.00273791 | = Sidereal Second |
| Second/Milligram | × 11.57407 | = Day/Kilogram |
| | × .36 | = Day/Ounce Apoth-Troy |
| | × 5.24991 | = Day/Pound Avoir |
| | × .27778 | = Hour/Gram |
| | × 8.63986 | = Hour/Ounce Apoth-Troy |
| | × 7.87487 | = Hour/Ounce Avoir |
| | × 125.99790 | = Hour/Pound Avoir |
| | × .98563 | = Year/Kilo-Ounce Apoth-Troy |
| | × 31.68877 | = Year/Ton Metric |
| | × 26.74767 | = Year/Ton Short Avoir |
| Second of Longitude | × .06666 | = Second of Time |
| Seconds in Arc × Radius | × .5/o484814 | = Length of Arc |
| Second Squared | × Dyne | = Gram-Centimeter Mass |
| Second Squared × Pound-Force | = Pound-Force Density × Foot Fourth Power | |
| × Pound-Force × SpHt Btu/lb-°F × Second Squared | = Btu × Foot | |
| Section | × 640. | = Acre |
| | × 1. | = Square Mile |
| Sector: Circle: Angle Radians | × Radius | = Arc Length |
| Arc Length × Radius | × .5 | = Area |
| Part of Circle Between Arc and Two Radii | | |
| Radius × Angle Degree | × .0174532 | = Arc Length |
| Radius Squared × Angle Degree | × .008722419 | = Area |
| Radius Squared × Angle Radian | × .5 | = Area |
| Sin (.5 Angle Degree) × Radius | × 2. | = Sector Chord |
| Sin (.5 Angle Radian) × Radius | × 2. | = Sector Chord |
| Sq Root of (Diameter | × Rise) | = Chord of Half of Arc |
| Sq Root of Rise × (Diameter - Rise) | × 2 | = Chord |
| Sq Root of (Radius Squared - .25 | Chord Squared) | - Radius = Rise |
| Sector: Semicircle: Radius Squared | × 1.5707 | = Area |
| Sector: Sphere: Cone Area | + Cap Area | = Total Area |
| Radius × Cap Area | × .3333 | = Volume |
| Radius Squared × Arc Height | × 2.0943951 | = Volume |

| | | |
|---|---|---|
| Segment: Circle: Angle Radians | × Radius | = Arc Length |
| Chord × Height | × .666 | = Area (3% Error) |
| Part of Circle Between Arc and Chord. | | |
| Radius × Angle Degree | × .0174532 | = Arc Length |
| Sin (.5 Angle Degree) × Radius | × 2. | = Chord |
| Sin (.5 Angle Radian) × Radius | × 2. | = Chord |
| Sq Root of (2 × Hgt × Radius | - Hgt Squared) | × 2 = Chord |
| Sq Root of Height × (Diam - Height) | × 2. | = Chord |
| Segment: Sphere: Arc Height × Radius | × 6.2832 | = Spherical Surface Area |
| Arc Hgt Squared × $\pi$ × Radius | - 1.047 × Hgt | = Volume |
| Selenium: (Se): #34:78.96 AW: | | |
| Semicircle: Radius | × 3.1416 | = Length |
| Seven-Gram | = 1(7/o). | = Gram |
| Sextillion | = 1(21/o). | = Units |
| Shaft: Avg Load: Diam Cubed × rpm | × .0091 | = HP |
| Hvy Load: Diam Cubed × rpm | × .008 | = HP |
| Inch Diameter × rpm | × .11039 | = Sq Root of Indicated HP |
| Inch Diameter Cubed × rpm | × .015625 | = Maximum Safe Horsepower |
| Inch Diameter Squared × rpm Squared | × .01218595 | = Indicated Horsepower |
| Jacks & Counters: Diam Cubed × rpm | × .0111 | = HP |
| Light Load: Diam Cubed × rpm | × .010 | = HP |
| Line: Avg Load: Diam Cubed × rpm | × .0111 | = HP |
| Hvy Load: Diam Cubed × rpm | × .010 | = HP |
| Light Load: Diam Cubed × rpm | × .0133 | = HP |
| Square Root of Horsepower/rpm | × 8.062 | = Inch Shaft Diam Needed |
| Shaku | × 11.93 | = Inch US |
| Shale: Cubic Yard | × 2400 to 3000 | = Pound |
| Shekel | × 252.666 | = Grain Gold |
| | × 16.177 | = Grain Silver |
| Shell: Drum or Tube: Unit Stress (psi) | × 2t"/d" | = psi Internal Pressure |
| Sherman-Bourquin Unit | × 2.5 | = Gamma (Riboflavin) |
| Sherman Unit $B_1$ | × .5 | = International Unit |
| | × 1.5 | = Microgram |
| | × .0015 | = Milligram |
| Sherman Unit C | × 10. | = International Unit |
| | × .5 | = Milligram |
| | × 10. | = USPX1 |
| Shingles: Slate: Number Shingles | × .01 | = Pound of Nail |
| Number Shingles/Square | × .01 | = Pound of Nail/Square |
| Square | × (40560/a")-19 | = Number Shingle Needed |
| Square Foot | × (406/a")-.2 | = Number Shingle Needed |
| Wood: | = 4 × 16 to 18 | = Inch Average Size |
| Bundle | × 239 to 250 | = Avg Number Shingle |
| Each 100 Shingles | × 3iw - 2. | = Square Feet Covered |
| Each 1000 Shingles | × 30iw - 20. | = Square Feet Covered |
| Number Shingles | × .03iw - .02 | = Square Feet Covered |
| Square | × 16/iw | = Pound Nail |
| Square Foot | × (48/iw) - 2. | = Number Shingle Needed |
| Square Feet | × .16/iw | = Pound Nail Needed |
| a" = Area Sqin. | iw = Inches to Weather | |
| Shingling: Asphalt Single: Square | × 2.75 | = Man-Hour |
| Asphalt Strip: Square | × 2.00 | = Man-Hour |
| Asphalt Twin: Square | × 2.25 | = Man-Hour |
| Number Wood Shingles | × .005 | = Man-Hr (Curved Surface) |
| | × .004 | = Man-Hr (Side Wall) |
| | × .0036 | = Man-Hr (Straight Roof) |
| Sho | × 1.91 | = Quart Liquid US |
| Siemen (G) | × 1.0 | = Conductance Unit |
| | × .9407 | = Ohm International |
| Sign | × 30. | = Degree |
| Silage: Cubic Foot | × 35. | = Pound (Average) |
| | × .0175 | = Short Ton |
| Number Cows | × 40. | = Pound Silage/Day |
| Short Ton | × 57.14 | = Cubic Feet |

Silicon: (Si): #14:28.06 AW: Val. +4

Silver: (Ag): #47:107.880 AW: SpHt. .06 Val. + 1 10.5 gm/cc MP960.5 BP 2001C.

| | | |
|---|---|---|
| Silver: (Ag): Cubic Foot | × 656. | = Pound 68F |
| Linear Expansion: Inch | × 10.8 | = Micro-Inch/Degree F |
| Point | = 960.5 | = Degree Centigrade (Int) |
| Six-Gram | = 1(6/o). | = Gram |
| Skalpund | × 425.076 | = Gram |
| | × 1000. | = Korn |
| | × 100. | = Ort |
| | × .9371 | = Pound Avoir US |
| Skein × .9371 | × 360. | = Feet Common |
| | × 109.73 | = Meter |
| | × 120. | = Yard Common |
| | × 840. | = Yard Cotton |
| | × 1600. | = Yard Worsted |
| Skin: Human: Dry: Resistance to Electric Current | = 100 to 600000. | = Ohms |
| Wet: Resistance to Electric Current | = 1000 | = Ohms |
| Skippund | × 20. | = Liespund |
| | × 400. | = Skalpund |
| Slag: Crushed: Cubic Yard | × 2000. | = Pound |
| Ton Short | × 1.0 | = Cubic Yard |
| Slate: Building Stone: Cubic Foot | × 175. | = Pound |
| Ton | × 11.4 | = Cubic Feet |
| Specific Gravity | = 2.8 | |
| Slip: Dirt Work: Feet Hauled | × .20 | = Hour/Cuyd (Horse Drag) |
| | × .045 | = Hour/Cuyd (Tractor Drag) |
| Slug | × 1.0 | = Geepound |
| | × 14.594 | = Kilogram-Mass |
| | × 1.4881 | = Kilogram-Slug |
| | × 1.0 | = Pound/Foot/Second Squared |
| | × fpss | = Pound-Force |
| | × Gravity | = Pound-Force |
| | × 32.1739 | = Pound-Mass |
| | × 1.0 | = Slug-Mass |
| Slug/Cubic Foot | × 32.1739 | = Pound-Mass/Cubic Foot |
| | × .51546 | = Specific Gravity |
| Slug-Foot Squared | × 13559000. | = Gram-Centimeter Squared |
| | × 1.3559 | = Kilogram-Meter Squared |
| | × 32.1739 | = Pound-Foot |
| | × 4633.04 | = Pound-Inch |
| Snow: Cubic Foot | × 7.2 | = Pound @ 32F |
| | × 4.9 | = Pound @ 20F |
| | × 5 to 12 | = Pound (Fresh Fallen) |
| Inch Deep | × .1 | = Inch of Water |
| Horizontal Square Feet of Roof | × 25. | = Pound Snow Load (Under 20F) |
| Number Degrees over 20F | × 1. | = Pound (Deduct from Snow Load) |
| Rain Compacted: Cubic Foot | × 15 to 50 | = Pound |
| Soap: Pound | × 25344000. | = Bubble (Saponification) |
| (To Precipitate Water Hardness) | × .666 | = Grain/Gallon |
| Sodium: (Na): #11.22.997 AW: Val. +1: | | |
| Density: Liter | × 1.026 | = Gram |
| Sodium Bicarbonate | × .631 | = Sodium Carbonate |
| Sodium Carbonate + Calcium Chloride | = Calcium Carbonate | + Sodium Chloride |
| + Calcium Hydroxide | = Calcium Carbonate | + Sodium Hydroxide |
| + Calcium Hydroxide | = Sodium Hydroxide | + Calcium Carbonate |
| + Calcium Sulfate | = Calcium Carbonate | + Sodium Sulfate |
| + Hydrocloric Acid | = Sodium Chloride | + Water + Carbon Dioxide |
| + Mg-Chloride + Cal-Hydroxide | = Mg Hydroxide | + Cal-Carb + Sod Chloride |
| + Mg-Sulfate + Cal-Hydroxide | = Mg Hydroxide | + Cal-Carb + Sod Sulfate |
| Sodium Chloride + Silver Nitrate | = Silver Chloride | + Sodium Nitrate |
| Sodium Hydroxide + Carbon Dioxide | = Sodium Carbonate | + Water |
| + Hydrochloric Acid | = Sodium Chloride | + Water |
| + Sulfuric Acid | = Sodium Sulfite | + Water |
| Sodium Nitrate + Sulfuric Acid | = Nitric Acid | + Sodium Hydrogen Sulfate |
| + Sulfuric Acid | = Nitric Acid | + Sodium Sulfate |
| Solar Radiation: Energy Falling: Minute | × 1.93 | = Gram-Calorie/Sq Centimeter |
| Sound: Each Time Distance is Doubled, Intensity is Reduced Four Times, or 6 db. | | |
| Second | × 1125. | = Feet (Common) |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Sound Second | × 1091. | = Feet 32F |
| | × 332.53 | = Meter 32F |
| Sound: 256 cy/sec: Wave Length | = 1.34 | = Meter in Air 20C |
| Sound: 256 cy/sec: Wave Length | = 5.70 | = Meter in Water 20C |
| | = 13.7 | = Meter in Brass Rod 20C |
| Square Root of (Sabin | × .0198) | = Feet Distance |
| Wave Length | × Frequency | = Sound Velocity |
| Span | × .00104167 | = Cable Length |
| | × 22.86 | = Centimeter |
| | × .125 | = Fathom |
| | × 9. | = Inch |
| Spandrel: Chord Squared | × .1073 | = Area |
| Radius Squared | × .2146 | = Area |
| Specific Gravity | × 1.0 | = Density (In Metric System) |
| | × 28.9 | = Gram-Molecular Wgt of Gas |
| | × Stroke | = Poise |
| | × 62.355 | = Pound/Cubic Foot 62F |
| | × 62.366 | = Pound/Cubic Foot 60F |
| | × 62.4245 | = Pound/Cubic Foot 39.1F |
| | × .0360850 | = Pound/Cubic Inch 62F |
| | × .0360891 | = Pound/Cubic Inch 60F |
| | × .03612557 | = Pound/Cubic Inch 39.1F |
| | | = Ratio of Density to Water |
| | × 1.94 | = Slug/Cubic Foot |
| Specific Gravity × Weight Equal Volume Water | | = Weight of Substance |
| × Weight of Displaced Water | | = Weight of Solid |
| Specific Gravity Oil @ 60F | × Centistoke | = Centipoise |
| Specific Heat: Btu/Lb-°F × Pound-Force × °F | × Second Squared | = Btu × Foot |
| × Fahrenheit Degree | × Pound-Mass | = Btu |
| Constant | × Pound-Mass-°F | = Pound-Force |
| Of Solid Element | × Atomic Weight | = 6.2 (Approx.) |
| Of Solid Element × Atomic Weight | × .16129 | = 1.0 |
| Unit | | = Gm-Calorie/gm/°C |
| | | = Btu/Pound/°F |
| Specific Volume | × Density | = 1.0 |
| | × Specific Wgt | = 1.0 |
| Specific Volume (cuft/Lb Mass) × Density (Lb Mass/cuft) | | = 1.0 |
| Specific Weight | × Sp Volume | = 1.0 |
| Sphere: | × 2. | = Hemisphere |
| | × 8. | = Spherical Right Angle |
| | × 12.57 | = Steradian |
| Sphere: Circumference | × Diameter | = Surface Area |
| Circumference Cubed | × .016887 | = Volume |
| Circumference Squared | × .3183 | = Surface Area |
| Cube Root of Volume | × 1.2407 | = Diameter |
| Diameter Cubed | × .523599 | = Volume |
| Diameter Squared | × 3.1416 | = Convex Surface Area |
| Lateral Area of Circumscribed Cylinder | | = Area of Sphere |
| Radius | × 1.1547 | = Side of Inscribed Cube |
| Radius Cubed | × 4.18879 | = Volume |
| Radius Squared | × 12.56637 | = Convex Surface Area |
| Surface Area × Diameter | × .16666 | = Volume |
| Volume Circumscribed Cylinder | × .666 | = Volume of Sphere |
| Sphere Segment: Radius × Height | × 6.2832 | = Spherical Surface Area |
| Spherical Degree | × .01745292 | = Steradian |
| | × .0013888 | = Steregon |
| Spherical Right Angle | × .25 | = Hemisphere |
| | × .125 | = Sphere |
| | × 1.571 | = Steradian |
| Spheroid: Oblate: Long Semiaxis Squared × Medium Semiaxis × 4.18879 | | = Volume |
| Prolate: Long Semiaxis × Medium Semiaxis Squared × 4.18879 | | = Volume |
| Sprocket: Number Teeth of Driven | × Speed Ratio | = Number Teeth of Driver |
| Number Teeth of Driver/Number Teeth of Driven | | = Speed Ratio |
| rpm of Driven | × Speed Ratio | = rpm of Driver |
| Spruce: Weight | × 6.4805 | = Aluminum Alloy Weight |
| | × 18.1312 | = Steel Weight |

| | | |
|---|---|---|
| Spruce: Weight of 1 Sqin × 1 Ft | = .18750 | = Pound |
| Spyndle (Jute) | × 14400. | = Yard/Pound Avoir |
| Squad | × 8. | = Men |
| Square | × 100. | = Square Feet (Bldg Trades) |
| Square: Diagonal Squared | × .5 | = Area |
| Side | × 1.414 | = Diagonal Length |
| Side Squared | × 1. | = Area |
| Square Acre | = 208.7103 | = Feet on Each Side |
| Square Centimeter (sqcm) | × .7/o2471 | = Acre |
| | × 1.27324 | = Circular Centimeter |
| | × .197352 | = Circular Inch |
| | × 127.324 | = Circular Millimeter |
| | × 197352. | = Circular Mil |
| | × .7/o1 | = Hectare |
| | × .6/o247 | = Square Chain Gunter |
| | × .01 | = Square Decimeter |
| | × .001076317 | = Square Foot |
| | × .15499969 | = Square Inch |
| | × .00247104 | = Square Link |
| | × .0001 | = Square Meter |
| | × 154999.69 | = Square Mil |
| | × .10/o3861 | = Square Mile |
| | × 100. | = Square Millimeter |
| | × .5/o3954 | = Square Rod |
| | × .00011959 | = Square Yard |
| Square Chain Engineer | × .2296 | = Acre |
| | × 9.29 | = Are |
| | × 12732.4 | = Circular Foot |
| | × 1833460. | = Circular Inch |
| | × .0929034 | = Hectare |
| | × .9184 | = Rood |
| | × 9290340. | = Square Centimeter |
| | × 2.296 | = Square Chain Gunter |
| | × 92903.4 | = Square Decimeter |
| | × 10000.057 | = Square Foot British |
| | × 1440000. | = Square Inch |
| | × .000929 | = Square Kilometer |
| | × 929.034 | = Square Meter |
| | × .0003587 | = Square Mile Statute US |
| | × 929034000. | = Square Millimeter |
| | × 36.73 | = Square Rod |
| | × 1296 | = Square Vara |
| | × 1111.11 | = Square Yard |
| | × 10000. | = Square Foot US |
| Square Chain Gunter | × .1009 | = Acre |
| | × 4.04687 | = Are |
| | × .4 | = Rood |
| | × .0001562 | = Section |
| | × 4046873. | = Square Centimeter |
| | × 4396. | = Square Feet |
| | × 627264 | = Square Inch |
| | × 10000. | = Square Link |
| | × 404.6873 | = Square Meter |
| | × .0001562 | = Square Mile Statute US |
| | × 4047(5/o). | = Square Millimeter |
| | × 16. | = Square Perch |
| | × 16. | = Square Pole |
| | × 16. | = Square Rod |
| | × 484.444 | = Square Yard |
| Square Decameter (sqdkm) | × 3.954 | = Square Rod |
| Square Decimeter (sqdm) | × 100. | = Square Centimeter |
| | × .1076317 | = Square Foot |
| | × 15.499969 | = Square Inch |
| | × .01 | = Square Meter |
| | × .011959 | = Square Yard |
| Square Foot British | × .99999419 | = Square Foot US |

| | | |
|---|---|---|
| Square Foot British | × .0929029 | = Square Meter |
| Square Foot US (Sqft) | × .4/o2296 | = Acre |
| | × .000929 | = Are |
| | × 1.27324 | = Circular Foot |
| | × 183.346 | = Circular Inch |
| | × .5/o929034 | = Hectare |
| | × .4/o9184 | = Rood |
| | × 929.0341 | = Square Centimeter |
| | × .0002296 | = Square Chain Gunter |
| | × 9.29034 | = Square Decimeter |
| | × 1.0000057 | = Square Foot British |
| | × 144. | = Square Inch |
| | × .7/o929034 | = Square Kilometer |
| | × 2.2956 | = Square Link |
| | × .0929034 | = Square Meter |
| | × .7/o3587 | = Square Mile Statute US |
| | × 92903.4 | = Square Millimeter |
| | × .003673 | = Square Rod |
| | × .1296 | = Square Vara |
| | × .1111 | = Square Yard |
| Square Foot/Cubic Foot | × 1.0 | = Interfacial Area Unit |
| Square Inch (sqin) | × .6/o1594 | = Acre |
| | × 1.2732 | = Circular Inch |
| | × 1273239. | = Circular Mil |
| | × .7/o6451 | = Hectare |
| | × .6/o6377 | = Rood |
| | × 6.451626 | = Square Centimeter |
| | × .5/o1594 | = Square Chain Gunter |
| | × .064516 | = Square Decimeter |
| | × .006944 | = Square Foot |
| | × .9/o6451 | = Square Kilometer |
| | × .0159432 | = Square Link |
| | × .0006451 | = Square Meter |
| | × 1(6/o). | = Square Mil |
| | × .9/o2491 | = Square Mile Statute US |
| | × 645.16 | = Square Millimeter |
| | × .4/o2551 | = Square Rod |
| | × .0007716 | = Square Yard |
| Square Kilometer (sqkm) | × 247.104 | = Acre |
| | × 100. | = Hectare |
| | × 10763845.488 | = Square Feet |
| | × 1(6/o). | = Square Meter |
| | × .3861006 | = Square Mile Statute US |
| | × 39536.622 | = Square Rod |
| | × 1195982.83 | = Square Yard |
| Square Link Gunter | × .4/o1 | = Acre |
| | × .5/o4047 | = Hectare |
| | × 404.6873 | = Square Centimeter |
| | × .0001 | = Square Chain Gunter |
| | × .4356 | = Square Foot |
| | × 62.7264 | = Square Inch |
| | × .04046873 | = Square Meter |
| | × .7/o15625 | = Square Mile |
| | × .0016 | = Square Rod |
| | × .0484 | = Square Yard |
| Square Meter (sqm) | × .000247104 | = Acre |
| | × .01 | = Are |
| | × 1. | = Centare or Centaire |
| | × .0001 | = Hectare |
| | × .0009884 | = Rood |
| | × 10000. | = Square Centimeter |
| | × .00247104 | = Square Chain Gunter |
| | × 100. | = Square Decimeter |
| | × 10.76387 | = Square Feet |
| | × 1459.3969 | = Square Inch |
| | × .5/o1 | = Square Kilometer |

| | | |
|---|---|---|
| Square Meter (sqm) | × 24.7104 | = Square Link |
| | × .6/o3861 | = Square Mile Statute US |
| | × 1(6/o). | = Square Millimeter |
| | × .039537 | = Square Rod |
| | × 1.19599 | = Square Yard |
| Square Mil | × 1.27324 | = Circular Mil |
| | × .5/o64516258 | = Square Centimeter |
| | × .5/o1 | = Square Inch |
| | × .00064516 | = Square Milimeter |
| Square Mile (sqmi) | × 640. | = Acre |
| | × 258.9998 | = Hectare |
| | × 2560. | = Rood |
| | × 259(8/o). | = Square Centimeter |
| | × 6400. | = Square Chain Gunter |
| | × 27878400. | = Square Feet |
| | × 4014489600. | = Square Inch |
| | × 2.589998 | = Square Kilometer |
| | × 64(6/o). | = Square Link |
| | × 2589998. | = Square Meter |
| | × 259(10/o). | = Square Millimeter |
| | × 102400. | = Square Rod |
| | × 3097600. | = Square Yard |
| Square Millimeter (sqmm) | × 1973.5 | = Circular Mil |
| | × .00155 | = Circular Inch |
| | × .01 | = Square Centimeter |
| | × .00155 | = Square Inch |
| Square Perch | × .00625 | = Acre |
| | × .2529 | = Are |
| | × .002529 | = Hectare |
| | × .025 | = Rood |
| | × 252930. | = Square Centimeter |
| | × .0625 | = Square Chain Gunter |
| | × .2529 | = Square Dekameter |
| | × 272.25 | = Square Feet |
| | × 39204. | = Square Inch |
| | × .4/o2529 | = Square Kilometer |
| | × 625. | = Square Link |
| | × 25.29295 | = Square Meter |
| | × .5/o9766 | = Square Mile Statute US |
| | × 25293000. | = Square Millimeter |
| | × 30.25 | = Square Yard |
| Square Pole | × .00625 | = Acre |
| | × .2529 | = Are |
| | × .002529 | = Hectare |
| | × .025 | = Rood |
| | × 252930. | = Square Centimeter |
| | × .0625 | = Square Chain Gunter |
| | × .2529 | = Square Dekameter |
| | × 272.25 | = Square Feet |
| | × 39204. | = Square Inch |
| | × .4/o2529 | = Square Kilometer |
| | × 625. | = Square Link |
| | × 25.29295 | = Square Meter |
| | × .5/o9766 | = Square Mile Statute US |
| | × 25293000. | = Square Millimeter |
| | × 30.25 | = Square Yard |
| Square Rod | × .00625 | = Acre |
| | × .2529 | = Are |
| | × .002529 | = Hectare |
| | × .025 | = Rood |
| | × 252930. | = Square Centimeter |
| | × .0625 | = Square Chain Gunter |
| | × .2529 | = Square Dekameter |
| | × 272.25 | = Square Feet |
| | × 39204. | = Square Inch |
| | × .4/o2529 | = Square Kilometer |

| | | |
|---|---|---|
| Square Rod | × 625. | = Square Link |
| | × 25.29295 | = Square Meter |
| | × .5/o9766 | = Square Mile Statute US |
| | × 25293000. | = Square Millimeter |
| | × 30.25 | = Square Yard |
| Square Vara | × 7.716 | = Square Feet |
| Square Yard (sqyd) | × .000206612 | = Acre |
| | × .4/o8361 | = Hectare |
| | × .0008264 | = Rood |
| | × 8361.307 | = Square Centimeter |
| | × .002066 | = Square Chain Gunter |
| | × 9. | = Square Feet |
| | × 1296. | = Square Inch |
| | × .6/o8361307 | = Square Kilometer |
| | × .836131 | = Square Meter |
| | × .6/o3228 | = Square Mile Statute US |
| | × 836130.7 | = Square Millimeter |
| | × .03306 | = Square Rod |
| Stainless Steel: Linear Expansion: Inch | × 17.8 | = Micro-Inch/°C(18-8) |
| | × 9.9 | = Mirc-Inch/°F(18-8) |
| Stannic: Sn | = +4 | = Valence |
| Stannous: Sn | = +2 | = Valence |
| Staples: Fence: #9 Gage: Pound | × (120/L")-10 | = Number Staples (L=Inch Lgt) |
| Statampere | × .10/o33358 | = Abampere |
| | × .9/o333585 | = Ampere |
| Statampere/Square Centimeter | × .10/o3335 | = Abampere/Sq Centimeter |
| | × .9/o3335 | = Ampere/Sq Centimeter |
| | × .8/o2151 | = Ampere/Sq Inch |
| | × .5/o3335 | = Ampere/Sq Meter |
| Statcoulomb | × .10/o33358 | = Abcoulomb |
| | × .13/o92663 | = Ampere-Hour |
| | × .9/o333585 | = Coulomb |
| | = 1.0 | = Electric Charge Unit |
| | × .14/o34571 | = Faraday |
| Statcoulomb/Square Centimeter | × .10/o3335 | = Abcoulomb/Sq Centimeter |
| | × .9/o3335 | = Coulomb/Sq Centimeter |
| | × .8/o2151 | = Coulomb/Sq Inch |
| | × .5/o3335 | = Coulomb/Sq Meter |
| Statfarad | × .20/o11127 | = Abfarad |
| | × .11/o111279 | = Farad |
| | × .5/o1112 | = Microfarad |
| Stathenry | × 898645(15/o). | = Abhenry |
| | × 898645(6/o). | = Henry |
| | × 898645(12/o). | = Microhenry |
| | × 898645(9/o). | = Millihenry |
| Statmho | × .11/o111279 | = Moh |
| Statoersted | × 1. | = Esu(Magnetizing Force) |
| | × .10/o333585 | = Oersted |
| Statohm | × 898645(15/o). | = Abohm |
| | × 898645. | = Megohm |
| | × 898645(12/o). | = Microhm |
| | × 898645(6/o). | = Ohm |
| Statvolt | × 299774(5/o). | = Abvolt |
| | × 299774(3/o). | = Microvolt |
| | × 299774. | = Millivolt |
| | × 299.774 | = Volt |
| Statvolt/Centimeter | × 299774(5/o). | = Abvolt/Centimeter |
| | × .2998 | = Kilovolt/Centimeter |
| | × 299774(5/o). | = Microvolt/Meter |
| | × 29977400. | = Millivolt/Meter |
| | × 299.774 | = Volt/Centimeter |
| | × 761.6 | = Volt/Inch |
| | × 29977.4 | = Volt/Meter |
| | × .7616 | = Volt/Mil |
| Statweber | × 1. | = Magnetic Flux Unit |
| | × 299774(5/o). | = Maxwell |

| | | |
|---|---|---|
| Statweber | × 299.774 | = Weber |
| Steam: Cast Iron Radiation: Area in Sqft | × 110. | = Btu/Degree-Day (Consumes) |
| Cast Iron Radiation: Area in Sqft | × 240. | = Btu/Hour (Transmits) |
| Cubic Foot | × .03732 | = Pound Weight |
| Cubic Inch of Water at 212F | × 1646. | = Cubic Inches of Steam |
| Micromho | × .6 | = ppm Impurity-Steam-77F |
| Point | = 100.000 | = Degree Centigrade |
| Pound of Water at 212F | × 27222. | = Cubic Feet of Steam |
| Pound Weight | × 26.795 | = Cubic Feet (Volume) |
| ppm Impurity | × 100. | = %Moisture × ppm Boiler Water |
| Steel: Bar or Rod: End Area Sqin | × 3.4 | = Pound/Linear Foot |
| Bending: (Lgth Ft × Thick Inch Sqd | × 575/(In Wide Female Die = Ton Load Press Brake | |
| Cast Linear Expansion: Inch | × 11.0 | = Micro-Inch/°C |
| | × 6.1 | = Micro-Inch/°F |
| Cold Roll: Compression | = 60000. | = psi |
| Cubical Expansion | = 19. | = Parts/Million/°F |
| Linear Expansion | × 6.2 | = Parts/Million/°F |
| Tensile | = 60000. | = psi |
| Tensile psi | × .75 | = psi Ultimate Shear |
| Cubic Foot | × 489.569 | = Pound (Pipe-Tube) 7.851 spg |
| Cubic Inch | × .2833 | = Pound (Pipe-Tube) 7.851 spg |
| Dead Load: Safety Factor | = 3-4 | = Based on Ultimate Stress |
| °F Increase | × 200. | = psi (When in Tension) |
| Feet Long × Inch Wide × Inch Thick | × 3.4 | = Pound |
| Hard: Linear Expansion: Inch | × 13.2 | = Micro-Inch/°C |
| | × 7.3 | = Micro-Inch/°F |
| Heat Conductivity: k | = 26. | = Btu/(Hr)(Sqft)(°F/Ft) |
| Inch Length × psi Pull | × .7/o333 | = Inch Stretched |
| Medium: Linear Expansion: Inch | × 12.0 | = Micro-Inch/°C |
| | × 6.7 | = Micro-Inch/°F |
| Modulus Elasticity | = 3(7/o). | = psi |
| Safety Factor | × Design Stress | = Ult Stress or Elastic Limit |
| Shock: Safety Factor | = 10-15 | = Based on Ultimate Stress |
| Soft: Linear Expansion Inch | × 11.0 | = Micro-Inch/°C |
| | × 6.1 | = Micro-Inch/°F |
| Specific Heat | = .1166 | = Btu/Pound/°F |
| Specific Thermal Capacity | = 64.0 | = Watt-Second/Cuin/°C |
| Thermal Conductivity | = 1.1 | = Watt/°C/Inch |
| Weight | × .3574 | = Aluminum Alloy Weight |
| | × 1.140 | = Copper Weight |
| | × 1.084 | = Inconel Weight |
| | × 1.126 | = Monel Weight |
| | × 1.133 | = Nickel Weight |
| | × .05515 | = Spruce Weight |
| Steel: Weight: Bar 1 Sqin × 1 Ft | = 3.3996 | = Pound |
| 200-1100F: °F × .8/o22 | + .5/o61 | = Expansion Coeff ppm/°F |
| Stellite: Linear Expansion: Inch | × 8.5 | = Micro-Inch/Degree F |
| Step Military | × 2.5 | = Feet |
| Steps: Rise-Tread Relation: 12.5 Minus (.5 | × Inch Tread) | = Rise in Inches |
| 25 Minus (2. | × Inch Rise) | = Tread in Inches |
| Steradian | × .1592 | = Hemisphere |
| | × .07958 | = Sphere |
| | × 57.2957795 | = Spherical Degree |
| | × .6366 | = Spherical Right Angle |
| | × .0795779 | = Steregon |
| Stere | × .2759 | = Cord |
| | × 35.3105 | = Cubic Feet |
| | × 1. | = Cubic Meter |
| | × 1.308 | = Cubic Yard |
| Steregon | × 720. | = Spherical Degree |
| | × 12.56637061 | = Steradian |
| Sthene | × 1(8/o). | = Dyne |
| Stilb (sb) | × 1.0 | = Candle/Square Centimeter |
| | × 6.4516 | = Candle/Square Inch |
| | × 2919. | = Foot-Lambert |
| | × 3.1416 | = Lambert |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Stilb (sb) | × 3141.6 | = Millilambert |
| St. Louis Heating Load | = 4580. | = Degree-Day |
| Stoke | × 100. | = Centistoke |
| | × Spg | = Poise |
| | × 1.0 | = Square Centimeter/Second |
| | × .001075 | = Square Feet/Second |
| Stone Avoirdupois | × .125 | = CWT |
| | × 6.350 | = Kilogram |
| | × 14. | = Pound |
| Stone: Crushed: Cubic Foot | × 100. | = Pound (Spg 1.6) |
| Cut: Handling: Car to Truck | = .04 | = Man-Hour/Cubic Foot |
| Truck to Pile | = .04 | = Man-Hour/Cubic Foot |
| Wheeling | = .03 | = Man-Hour/100' Wheeled |
| Handwork: Setting Ashlar | = .2 | = Laborer-Hour/Cubic Foot |
| | = .12 | = Mason-Hour/Cubic Foot |
| Set Cornice | = .2 | = Mason-Hour/Cubic Foot |
| Set Sill or Lintel | = .3 | = Helper or Mason-Hr/Cuft |
| Old Work: Clean or Point | = .015 | = Labor-Hour/Square Foot |
| | = .03 | = Mason-Hour/Square Foot |
| New Work: Wash or Point | = .01 | = Labor-Hour/Square Foot |
| | = .02 | = Mason-Hour/Square Foot |
| Pointing: Heavy Foundation | = .0003 | = Cuyd Mortar/Cuft Stone |
| Ornamental Work | = .0004 | = Cuyd Mortar/Cuft Stone |
| Sill or Lintel | = .0005 | = Cuyd Mortar/Cuft Stone |
| Thin Ashler | = .0005 | = Cuyd Mortar/Cuft Stone |
| Setting: Heavy Foundation | = .001 | = Cuyd Mortar/Cuft Stone |
| Set or Parge: Ornamental | = .0013 | = Cuyd Mortar/Cuft Stone |
| Sill or Lintel | = .0015 | = Cuyd Mortar/Cuft Stone |
| Thin Ashler | = .0015 | = Cuyd Mortar/Cuft Stone |
| Stone: Handling: Pit to Truck: Cubic Yard | × .78 | = Man-Hr Large Round Boulder |
| | × .725 | = Man-Hr Large Split Stone |
| | × .725 | = Man-Hr Small Round Cobble |
| | × .67 | = Man-Hr Split Stone |
| Hauling Calculation: Ton | × .78 | = Cubic Yard |
| Cubic Yard | × 2600. | = Pound |
| Lay: Wall 18-30" Flat Split Stone | = .26 | = Cuyd Mortar/Cuyd Wall |
| | = 2.5 | = Mason or Helper-Hr/Cuyd Wall |
| Wall 30-48": Cobble or Boulder | = .3 | = Cuyd Mortar/Cuyd Wall |
| | = 5.25 | = Helper-Hour/Cuyd Wall |
| | = 6.25 | = Mason-Hour/Cuyd Wall |
| Cobweb Rubble | = .15 | = Cuyd Mortar/Cuyd Wall |
| | = 5.3 | = Helper-Hour/Cuyd Wall |
| | = 6.4 | = Mason-Hour/Cuyd Wall |
| Wall Random or Coursed Ashler | = .15 | = Cuyd Mortar/cuyd Wall |
| | = 5.3 | = Helper-Hour/Cuyd Wall |
| | = 6.4 | = Mason-Hour/Cuyd Wall |
| Stone: Load-Wheel-Unload: Cuft | × .002 | = Man-Hour/Foot Wheeled |
| Stone: Point: Raked Out: Large Boulder | = .018 | = Laborer-Hr/Sqft |
| | = .05 | = Mason-Hr/Sqft |
| Raked Out: Flat Stone | = .017 | = Laborer-Hr/Sqft |
| | = .05 | = Mason-Hr/Sqft |
| Raked Out: Random/Coursed | = .012 | = Laborer-Hr/Sqft Ashler |
| | = .033 | = Mason-Hr/Sqft Ashler |
| Ribbon Joint: Cobweb Rubble | = .033 | = Laborer-Hr/Sqft |
| | = .1 | = Mason-Hr/Sqft |
| Ribbon Joint: Random/Coursed | = .033 | = Laborer-Hr/Sqft Ashler |
| | = .1 | = Mason-Hr/Sqft Ashler |
| Smooth Joint: Cobweb Rubble | = .017 | = Laborer-Hr/Sqft |
| | = .05 | = Mason-Hr/Sqft |
| Smooth Joint: Random/Coursed | = .017 | = Laborer-Hr/Sqft Ashler |
| | = .05 | = Mason-Hr/Sqft Ashler |
| Stonework: Freestone: Beds or Builds | = .4 | = Cutter-Hr/Sqft Surface |
| Fine Hammer | = 2.0 | = Cutter-Hr/Sqft Surface |
| Face Hammer | = .8 | = Cutter-Hr/Sqft Surface |
| Granite: Beds or Builds | = .5 | = Cutter-Hr/Sqft Surface |
| Fine Hammer | = 2.5 | = Cutter-Hr/Sqft Surface |

| | | |
|---|---|---|
| Stonework: Granite: Face Hammer | = 1.0 | = Cutter-Hr/Sqft Surface |
| Stram: Cubic Feet | × .0016 | = Ton Short |
| Strontium: (Sr): #38.87.63AW: | | |
| Structural Steel: Floor Beams | = 250. | = Sqft/Ton to be Painted |
| Girders-Columns | = 200. | = Sqft/Ton to be Painted |
| Trusses-Purlins | = 400. | = Sqft/Ton to be Painted |
| Studs: 2×4 Wall: 12" Spacing: Linear Feet | × .005H' + .08 | = Carpenter-Hr(Hand Saw) |
| | × .0035H' + .056 | = Carpenter-Hr (Power Saw) |
| | × .68H' + 2.56 | = Board-Feet |
| 16" Spacing: Linear Feet | × .005H' + .06 | = Carpenter-Hr(Hand Saw) |
| | × .0035H' + .042 | = Carpenter-Hr(Power Saw) |
| | × .5H' + 2.7 | = Board-Feet |
| 2×6 Wall: 12" Spacing: Linear Feet | × .018H' + .046 | = Carpenter-Hr(Hand Saw) |
| | × .0128H' + .031 | = Carpenter-Hr(Power Saw) |
| | × 1.17H' + 2.64 | = Board-Feet |
| 16" Spacing: Linear Feet | × .015H' + .04 | = Carpenter-Hr(Hand Saw) |
| | × .0105H' + .028 | = Carpenter-Hr(Power Saw) |
| | × 9.17H' + 2.66 | = Board-Feet |
| Styrofoam #22: Compressive Yield Strength | = 16 to 32 | = psi |
| Flexural Strength | = 42 to 61 | = psi |
| (Polystyrene) Density | = 1.6 to 2.0 | = Lb/Cuft |
| Shear Strength | = 27 to 36 | = psi |
| Tensile Strength | = 45 to 61 | = psi |
| Sulfate: $SO_4$ | = -2 | = Valence |
| Sulfate Radicle | × 1.48 | = Sodium Sulfate |
| Sulfide: S | = -2 | = Valence |
| Sulfide Test: Sulfide + Hydrochloric Acid | = Hydrogen Sulfide | + Metal Chloride |
| Sulfite: $SO_3$ | = -2 | = Valence |
| Sulfur: (S): #16.32.06 AW: SpHt .19. Val. -2: | | |
| Sulfur: (S) Density: Liter | × 2.8607 | = Gram |
| Point | = 444.6 | = Degree C International |
| | = 444.7 | = Degree C Thermodynamic |
| Trioxide | × 1.77 | = Sodium Sulfate |
| Sulfur Dioxide | + Water | = Sulfurous Acid |
| Sulfuric Acid + Barium Peroxide | = Hydrogen Peroxide | + Barium Sulfate |
| + Sodium Nitrate | = Sodium Sulfate | + Nitric Acid |
| + Sodium Chloride | = Sodium Sulfate | + Hydrochloric Acid |
| Sulfurous Acid | + Oxygen | = Sulfuric Acid |
| Sun | × 1.193 | = Inch US |
| Sun Radiation Density: cc | × .4/o43 | = Erg |
| Sunlight: Contains | = 3 to 5 | = Percent Ultraviolet Radiation |
| Standard Hour | × 3.0 | = Carbon Arc Hour (Modified) |
| | × 31.08 | = mg Oxalic Acid/Hour |
| Sprocket: Chain Drive: Inch Pitch Diam × rpm | × .5 | = In-Lb Transmitted Torque |
| In-Lb Transmitted Torque | × rpm × .4/o158 | = HP |

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|---|---|---|
| Tablespoon | × .0625 | = Cup |
| | × 3.999 | = Fluid Drams |
| | × .499875 | = Ounce Fluid US |
| | × 3. | = Teaspoon |
| Tael | × 575.64 | = Grain |
| Talent | × 60. | = Minas(80 or 50 Shekel Each) |
| | × 3000 or 3600 | = Shekel |
| Talent: Attic | × 26.26 | = Kilogram |
| | × 57.85 | = Pound |
| Gold | × 12633.3 | = Grain (50 Shekel) |
| | × 15159.96 | = Grain (60 Shekel) |
| Ton | × .25 | = Acre |
| Tank: Actual Stress psi | × Safety Factor | = Ultimate Strength psi |
| Base Area | × Height | = Volume |
| Base Perimeter | × Height | = Lateral Area |
| Bolted or Welded: Unit Stress (psi) | × 2t"/d" | = psi Internal Pressure |
| Bbl (42)/Inch × Inches Production | × Hour | = Barrel (42)/Day |
| Circumference Squared Feet | × .0141648 | = Barrel (42)/Foot Depth |
| | × .0001475 | = Barrel (42)/.125" Depth |
| | × .0002951 | = Barrel (42)/.25" Depth |

# CONVERSION FACTORS

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|---|---|---|
| Tank: Circumference Squared Feet | × .0011804 | = Barrel (42)/Inch Depth |
| Circumference Squared × Height | × .07957747 | = Volume |
| Cold Roll Steel: Cubical Expansion | = .19 | = Parts/Million/°F |
| Linear Expansion | = 6.2 | = Parts/Million/°F |
| Diameter Foot × Foot High | × 3.1416 | = Sqft Lateral Area |
| | × 452.389248 | = Sqin Lateral Area |
| × Inch High | × .2617989 | = Sqft Lateral Area |
| | × 37.69908 | = Sqin Lateral Area |
| Diameter × Height | × 3.1416 | = Lateral Area |
| Diameter Inch × Foot High | × .2617989 | = Sqft Lateral Area |
| | × 37.69908 | = Sqin Lateral Area |
| × Inch High | × .021816 | = Sqft Lateral Area |
| | × 3.1416 | = Sqin Lateral Area |
| Diameter Squared Foot | × .7854 | = Square Feet Base Area |
| Diameter Squared Foot × Foot High | × .139885 | = Barrel (42) |
| | × .785398 | = Cubic Foot |
| | × 1357.168 | = Cubic Inch |
| | × 5.87517 | = Gallon US |
| Diameter Squared Foot × Inch High | × .01165 | = Barrel (42) |
| | × .0654415 | = Cubic Foot |
| | × 113.09734 | = Cubic Inch |
| | × .489597 | = Gallon US |
| Diameter Squared × Height | × .7854 | = Volume |
| Diameter Squared Inch × Foot High | × .0009714234 | = Barrel(42) |
| | × .00545412 | = Cubic Foot |
| | × 9.4247784 | = Cubic Inch |
| | × .0408 | = Gallon US |
| Diameter Squared Inch × Inch High | × .4/o8095195 | = Barrel (42) |
| | × .00045451 | = Cubic Foot |
| | × .785398 | = Cubic Inch |
| | × .0034 | = Gallon US |
| Tank: Inch Wall Thickness | × 30000. | = psi Allowable Press × Inch OD |
| Inside Radius × Height | × 6.28318 | = Area Internal |
| Liquid Cubical Exp Coeff (−) Tank Cubical Exp Coeff | | = Net Expansion Coefficient |
| (−) Tank Cubical Exp Coeff | | = Parts/Million/°F |
| Oil Storage Steel 37500 Bbl: | = 38381. | = Barrel (42)/Volume |
| | = 215485. | = Cuft(95.5 × 30.083') |
| | = 7163. | = Square Feet Base |
| 55000 Bbl: | = 55864. | = Barrel (42)/Volume |
| | = 313652. | = Cuft(114.583 × 30.417') |
| | = 10312. | = Square Feet Base |
| Oil: 55000: Spaced 500' Centers | = 5.74 | = Acres Occupied/Tank |
| Outside Radius × Height | × 6.28318 | = Area External |
| Parts/Million/°F × °F Temp Drop | × Gallons | = Net Gallons Expanded |
| Radius × Height | × 6.28318 | = Lateral Area |
| Radius Squared × Height | × 3.1416 | = Volume |
| Tentalum: (Ta): #73:180.88 AW: SpHt .036: gm/cc | 16.6 | |
| Tar: 68F: Cubic Foot | × 62 to 68 | = Pound |
| Tchetvert | × 209.9 | = Liter |
| | × 2. | = Osmini |
| | × 4. | = Poyok |
| | × 8. | = Tchetverik |
| Teaspoon | × .0208 | = Cup |
| | × 1.333 | = Dram Fluid |
| | × 4.9 | = Milliliter |
| | × 45 to 60 | = Minim (Drops) |
| | × .333 | = Tablespoon |
| Technetium: (Tc): #43.99. AW | | |
| Tees: 1 to 4": Air Flow Resistance: Inch Diam | × 3.7 − 1.7 | = Equiv Feet Straight Pipe |
| 5 to 8": Air Flow Resistance: Ft Diam | × 4. | = Equiv Feet Straight Pipe |
| Water Flow Resistance: Inch Diam | = 5. | = Equiv Feet Straight Pipe |
| Feet Diam | = 60. | = Equiv Feet Straight Pipe |
| Television | = 300. | = Watt (Avg Use) |
| Tellurium: (Te): #52:127.61 AW: SpHt .047: gm/cc | 6.24 | |
| Temperature: Centigrade Degree | + 273.16 | = Centigrade Degree Absolute |
| | + 273.16 | = Kelvin Degree |

| | | |
|---|---|---|
| Temperature: Centigrade Degree | × .8 | = Reaumur Degree |
| Centigrade Degree × 1.8 | + 32 | = Fahrenheit Degree |
| Centigrade Degree Absolute | - 273.16 | = Centigrade Degree |
| | × 1.0 | = Kelvin Degree |
| Fahrenheit Degree | + 459.69 | = Fahrenheit Degree Absolute |
| | × 8.547 | = Kelvin Degree |
| Absolute | × 1.0 | = Rankine Degree |
| Minus 32 | × .555 | = Centigrade Degree |
| | × .444 | = Reaumur Degree |
| Minus 32 × .555 | + 273.16 | = Kelvin Degree |
| Temperature: Kelvin Degree | - 273.16 | = Centigrade Degree |
| | × 1.0 | = Centigrade Degree Absolute |
| | × .117 | = Fahrenheit Degree |
| Minus 273.16 | × .8 | = Reaumur Degree |
| Minus 273.16 × 1.8 | + 32 | = Fahrenheit Degree |
| Temperature: Drop × Specific Heat | × Mass | = Heat Lost |
| Normal Household: | = 65°F | = Norm |
| Outside: Avg of Daily High + Low | - Norm | = Degree-Day |
| Rise × Specific Heat | × Mass | = Heat Gained |
| Temperature: Rankine Degree | × 1.0 | = Fahrenheit Degree Absolute |
| Temperature: Reaumur Degree | × 1.25 | = Centigrade Degree |
| × 2.25 | + 32 | = Fahrenheit Degree |
| × 1.25 | + 273.16 | = Kelvin Degree |
| Tensile Strength: psi × sqin Cross-Section Area | | = Pound: Max Test Load |
| Terbium: (Tb): #65:159.2 AW: | | |
| Terra-Cotta: Backing with Brick | = .8 | = Bricks/Cubic Foot |
| | = .04 | = Laborer-Hr/Cubic Foot |
| Handling: Car to Truck | = .03 | = Man-Hr/Cubic Foot |
| Truck to Pile | = .03 | = Man-Hr/Cubic Foot |
| Wheeling | = .03 | = Man-Hr/Cuft/Foot Wheeled |
| Hauling Calculation | = 28. | = Cubic Feet/Ton |
| | = 75. | = Pound/Cubic Foot |
| New Work: Wash or Point | = .0075 | = Labor-Hr/Square Foot |
| | = .015 | = Mason-Hr/Square Foot |
| Old Work: Clean or Point | = .01 | = Labor-Hr/Square Foot |
| | = .02 | = Mason-Hr/Square Foot |
| Setting: Cubic Feet | × .0016 | = Cubic Yard of Mortar |
| | × .1 | = Laborer-Hr |
| Setting of Backing: Cuft | × .08 | = Mason-Hr |
| Sort and Carry to Scaffold | = .08 | = Man-Hr/Cubic Foot |
| Tetrahedron: Side Cubed | × .1179 | = Volume |
| Side Squared | × 1.7321 | = Total Area |
| Thallium: (Tl): #81:204.39 AW: | | |
| Therm | × 1(5/o). | = Btu |
| | × 1. | = French Thermal Unit |
| | × 1. | = Gramme-Degree |
| Thermal Capacity of Body | × 1.0 | = gm-cal/°C |
| | × 1.0 | = Erg/°C |
| | × 1.0 | = Joule/°C |
| Thermal Capacity of Substance | × 1.0 | = gm-cal/sec/°C/gm |
| | × 1.0 | = Erg/sec/°C/gm |
| | × 1.0 | = Watt/°C/kg |
| Thermal Conductivity | × 1.0 | = gm-cal/sec/°C/cm |
| | × 1.0 | = Erg/sec/°C/cm |
| | × 1.0 | = Watt/°C/m |
| Thermal Ohm | × 1.0 | = Joule |
| Thermal Ohm/Sec/Sqcm/cm/°C Diff. | × .2389 | = gm-cal/Sec/Sqcm/cm/°C Diff. |
| Thermal Transmittance Unit | × 1.0 | = Btu/Sec/°F/sqin |
| | × 1.0 | = gm-cal/sec/°C/sqcm |
| | × 1.0 | = Erg/sec/°C/sqcm |
| | × 1.0 | = Surface Coeff of Transfer Unit |
| | × 1.0 | = Watt/°C/sqm |
| Thermodynamics | = 4. | = Dimension Systems |

Thermodynamious = 3 Fundamental Mechanics Dimensions + Temperature - Heat Quantity - Thermal Capacity, Conductivity - Transmittance - Entropy

Thermometer: Alcohol in Glass = -100 to 250= Fahrenheit Degree Range

# CONVERSION FACTORS

| | | |
|---|---|---|
| Thermometer: Bimetallic | = -40 to 800 | = Fahrenheit Degree Range |
| Mercury in Glass | = -40 to 950 | = Fahrenheit Degree Range |
| Transmitting-Expansion: Mercury | = -40 to 1000 | = Fahrenheit Degree Range |
| Nitrogen | = -200 to 800 | = Fahrenheit Degree Range |
| Thorium: (Th): #90.232.12 AW: | | |
| Three-Gram (Bennett System) | = 1000. | = Gram |
| Thulium: (Tm): #69.169.4 AW: | | |
| Tierce | × 42. | = Gallon Liquid US |
| Tile: Bonding: Square Feet of 16" Wall | × .7 | = Number Tiles |
| Corner: Linear Feet of Corner | × 2.0 | = Number Tiles |
| Hollow: Bock: | t" | = Inch Tile Thickness |
| Under 4": Partition: | = .03t" | = Cuyd Mortar/Square |
| Column Covering | = .02t" + .06 | = Cuyd Mortar/Square |
| Floor Construction | = .03t" | = Cuyd Mortar/Square |
| Furring | = .02t" + .03 | = Cuyd Mortar/Square |
| Wall Construction: | = .03t" + .08 | = Cuyd Mortar/Square |
| Interlocking Wall: 8" Backing | = .25 | = Cuyd Mortar/Square |
| Inch Wall × Square | × .035 + .03 | = Cuyd Mortar |
| | × 1.15 - .2 | = Mason-Hr |
| | × 25. + 10. | = Number Tile Needed |
| Number Tile | × 17. | = Pound Weight |
| Ton | × 137. | = Number Tiles |
| Tile: Lay: Hollow: 8×8×t: Square Feet | × .085 | = Mason-Hr(Flat Arch) |
| | × 1.8 | = Number Tile (Furring) |
| Square | × .625t" + 1.25 | = Mason-Hr (Load Bearing Wall Tile) |
| | × 1.25t" + 1.25 | = Mason-Hr (Partition) |
| Hollow: 12×12×t: Square | × .5t" + 1. | = Mason-Hr(Flat Arch) |
| | × t" + 1. | = Mason-Hr(Furring) |
| | × .35t" + 4. | = Mason-Hr(Load Bearing Wall Tile) |
| | × .3t" + 3.4 | = Mason-Hr (Partition) |
| Square Feet | × .003t" + .034 | = Mason-Hr (Partition) |
| Hollow: Square | × .5t" + 1. | = Mason-Hr (Round Column) |
| | × .5t" + 1.5 | = Mason-Hr (Square Column) |
| Linear Feet | × .015 | = Mason-Hr (Shoe-Soffit) |
| Tilework: Hoisting: Number of Stories | × .045t" - .04 | = Elevator-Hour/Square |
| Stock Pile to Work | = .05t" + 1.6 | = Laborer-Hr(0-40' Carry) |
| | = .1t" + 1.9 | = Laborer-Hr (40-80' Carry) |
| | = .145t" + 2.2 | = Laborer-Hr (80-120' Carry) |
| Timber: Dead Load: Safety Factor | × 7 | = Based on Ultimate Stress |
| Shock: Safety Factor | × 20 | = Based on Ultimate Stress |
| Time | × Acceleration | = Final Velocity |
| | × Avg Velocity | = Distance |
| | × Power | = Force |
| | × Velocity | = Distance |
| Time Squared × Acceleration | × .5 | = Distance |
| Time × Principal | × Rate | = Interest |
| × Principal × Rate | + Principal | = Amount |
| Tin: (Sn): #50.118.70 AW: SpHt.054: gm/cc 7.30: | | |
| Titanium: (Ti): #22.47.90 AW: SpHt .125: gm/cc | 4.54: | |
| Toaster-Automatic: | = 1100. | = Watt Avg Use |
| Toise | × 1.95 | = Meter |
| | × 6. | = Paris Feet |
| Toluene Gas(60F-30"Hg) | = 3.180 | = Specific Gravity (Air=1) |
| Cubic Foot | × 4414. | = Btu Gross Combustion Heat |
| | × 43.0 | = Cuft Air for Combustion |
| | × .2435 | = Pound |
| Cuft Mixed Air-Gas | × 100.22 | = Btu Gross Combustion Heat |
| Flame Temperature | = 3745. | = Degree F Maximum |
| Pound | × 18245. | = Btu Gross Combustion Heat |
| | × 4.11 | = Cubic Feet |
| | × 13.535 | = Pound Air for Combustion |
| Ton Assay | × 29166.72 | = Milligram |
| Ton British Shipping | × 32.72 | = Bushel British |
| | × 33.75 | = Bushel US |
| | × 42. | = Cubic Feet |
| | × .952381 | = Ton Shipping US |

| | | |
|---|---|---|
| **Tonde** | × 1.36 | = Acre |
| **Ton Displacement** | × 1.0 | = Displacement Ton |
| | × 35. | = Cubic Foot |
| | × 1.0 | = Long Ton Weight of Sea Water |
| **Ton Long** | × 25. | = Cubic Feet Dry Sand |
| | × 20. | = CWT Long |
| | × 22.4 | = CWT Short |
| | × 1016047. | = Gram |
| | × 15680000. | = Grain |
| | × 1016.04704 | = Kilogram |
| | × 32667. | = Ounce Apoth-Troy |
| | × 35840. | = Ounce Avoir |
| | × 2722.22 | = Pound Apoth-Troy |
| | × 2240. | = Pound Avoir |
| | × 1.0 | = Ton Gross |
| | × 1.0 | = Ton Gross Avoir |
| | × 1.0 | = Ton Long Avoir |
| | × 1.01605 | = Ton Metric |
| | × 1.12 | = Ton Net |
| | × 1.12 | = Ton Short |
| Ton Long/Cubic Yard | × 1.329 | = Gram/Cubic Centimeter |
| | × 1329. | = Kilogram/Cubic Meter |
| | × .0401 | = Pound/Cubic Inch |
| | × 82.96 | = Pound/Cubic Foot |
| | × 2240. | = Pound/Cubic Yard |
| | × 11.09 | = Pound/Gallon Liquid US |
| | × 1.329 | = Ton Metric/Cubic Meter |
| | × 1.12 | = Ton Short/Cubic Yard |
| Ton Long-Mile | × 1016. | = Kilogram-Mile |
| | × 2240. | = Pound-Mile |
| | × 1.1016 | = Ton Metric-Mile |
| | × 1.12 | = Ton Short-Mile |
| Ton Long-Mile Crushed Rock | × .77 to .79 | = Cubic Yard-Mile |
| Ton Long-Mile Sand | × .74 to .91 | = Cubic Yard-Mile |
| Ton Long/Mile | × 247.475 | = Grain/Inch |
| | × 6.31342 | = Gram/Centimeter |
| | × .42424 | = Pound/Foot |
| | × .03535 | = Pound/Inch |
| | × 1.272727 | = Pound/Yard |
| | × .631342 | = Ton Metric/Kilometer |
| Ton Long/Square Foot | × .3/o109366 | = Kilogram/Square Meter |
| Ton Long/Square Inch | × 1.57494 | = Kilogram/Square Millimeter |
| Ton Metric | × 7.454 | = Barrel (42) Oil 36 API |
| | × 6.297 | = Barrel (31.5) Water 60F |
| | × 15432356 | = Grain |
| | × 1(6/o). | = Gram |
| | × 19.6841 | = Hundredweight Long |
| | × 1000. | = Kilogram |
| | × 32151. | = Ounce Apoth-Troy |
| | × 35274. | = Ounce Avoir |
| | × 2679.23 | = Pound Apoth-Troy |
| | × 2204.62125 | = Pound Avoir |
| | × .98420640 | = Ton Long |
| | × 1.0 | = Tonneau |
| | × 1.1023112 | = Ton Short |
| Ton Metric/Kilometer | × 391.983 | = Grain/Inch |
| | × 10. | = Gram/Centimeter |
| | × .67197 | = Pound/Foot |
| | × .05600 | = Pound/Inch |
| | × 2.01591 | = Pound/Yard |
| | × .4/o25 | = Ton Long/Inch |
| | × 1.583597 | = Ton Long/Mile |
| | × .4/o28 | = Ton Short/Inch |
| | × 1.77400 | = Ton Short/Mile |
| Ton Metric/Year | × 114.07955 | = Gram/Hour |
| | × 2.73791 | = Kilogram/Day |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Ton Metric/Year | × 32.15072 | = Kilo-Ounce Troy/Year |
| | × 31.68877 | = Milligram/Second |
| | × 4.02404 | = Ounce Avoir/Hour |
| | × 88.02578 | = Ounce Troy/Day |
| | × 3.66774 | = Ounce Troy/Hour |
| | × 6.03606 | = Pound Avoir/Day |
| | × .25150 | = Pound Avoir/Hour |
| | × 1.10231 | = Ton Short Avoir/Year |
| Tonne | × 22.046223 | = Cwt Short |
| | × 257205.94 | = Dram Apoth |
| | × 564383.32 | = Dram Avoir |
| | × 15432356. | = Grain |
| | × 1(6/o). | = Gram |
| | × 1000. | = Kilogram |
| | × 1(9/o). | = Milligram |
| | × 32150.742 | = Ounce Apoth-Troy |
| | × 35273.96 | = Ounce Avoir |
| | × 643014.85 | = Pennyweight |
| | × 2679.2285 | = Pound Apoth-Troy |
| | × 2204.622341 | = Pound Avoir |
| | × 771617.8 | = Scruple |
| | × .9842064 | = Ton Long |
| | × 1.0 | = Ton Metric |
| | × 1.1023112 | = Ton Short |
| Ton Refrigeration | × 200. | = Btu/Minute |
| | × 1.0 | = Refrigeration Short Ton |
| Commercial | × 288000. | = Btu/Day |
| | × 12000. | = Btu/Hour |
| | × 144. | = Btu Loss/Pound Ice/Hour |
| | × 200. | = Btu/Minute |
| | × 83.33 | = Pound Ice Lost/Hour |
| Standard | × 288000. | = Btu |
| Ton Refrigeration/Day | × 200. | = Btu/Minute |
| Ton Register | × 100. | = Cubic Feet |
| | × 1.0 | = Ton Shipping US |
| Ton Shipping US | × 31.16 | = Bushel British |
| | × 32.143 | = Bushel US |
| | × 40. | = Cubic Feet |
| | × 2.8317 | = Cubic Meter |
| | × 1.0 | = Freight Ton |
| | × 1.0 | = Measurement Ton |
| | × 1.0 | = Register Ton |
| | × 1.050 | = Ton Shipping British |
| Ton Short | × 40. | = Cubic Feet (Storage) |
| | × 32.07 | = Cubic Feet Water 62F |
| | × 889644000. | = Dyne |
| | × 224. | = Gallon Liquid British |
| | × 268.8 | = Gallon Liquid US |
| | × 8064. | = Gill |
| | × 14(6/o). | = Grain |
| | × 907184. | = Gram |
| | × 4. | = Hogshead |
| | × 17.857 | = Hundredweight Long |
| | × 20. | = Hundredweight Short |
| | × 907.18486 | = Kilogram |
| | × 1000. | = Liter |
| | × 29166.72 | = Ounce Apoth-Troy Assay |
| | × 32000. | = Ounce Avoir |
| | × 2. | = Pipe |
| | × 2430.56 | = Pound Apoth-Troy |
| | × 2000. | = Pound Avoir |
| | × 1008. | = Quart Liquid US |
| | × .8928571 | = Ton Gross |
| | × .8928571 | = Ton Long |
| | × .90718486 | = Ton Metric |
| | × 1.0 | = Ton Net |

| | | |
|---|---|---|
| Ton Short | × 1.0 | = Ton Net Avoir |
| | × 1.0 | = Ton Short Avoir |
| Ton Short/Cubic Foot | × 2000. | = Pound/Cubic Foot |
| | × 1.157 | = Pound/Cubic Inch |
| | × 267. | = Pound/Gallon Liquid US |
| | × 27. | = Ton Short/Cubic Yard |
| Ton Short/Cubic Yard | × 1.187 | = Gram/Cubic Centimeter |
| | × 1187. | = Kilogram/Cubic Meter |
| | × 74.07 | = Pound/Cubic Foot |
| | × .04287 | = Pound/Cubic Inch |
| | × 9.902 | = Pound/Gallon Liquid US |
| | × .8929 | = Ton Long/Cubic Yard |
| | × 1.187 | = Ton Metric/Cubic Meter |
| | × .037 | = Ton Short/Cubic Foot |
| Ton Short/Mile | × 220.960 | = Grain/Inch |
| | × 5.63698 | = Gram/Centimeter |
| | × .563698 | = Kilogram/Meter |
| | × .37879 | = Pound/Foot |
| | × .03157 | = Pound/Inch |
| | × 1.13636 | = Pound/Yard |
| | × .89286 | = Ton Long/Mile |
| Ton Short/Square Foot | × .94502 | = Atmosphere: 32F-32.2 fpss |
| | × .9576 | = Bar |
| | × 957600. | = Barye 32F |
| | × 71.826 | = Centimeter Hg: 32F-32.2 fpss |
| | × 957600. | = Dyne/Sq Centimeter |
| | × 32.07 | = Feet Water: 59F-32.2 fpss |
| | × 28.28 | = Inch Mercury 32F-32.2 fpss |
| | × 384.8 | = Inch Water: 59F-32.2 fpss |
| | × .97648 | = Kilogram/Square Centimeter |
| | × 9764.8 | = Kilogram/Square Meter |
| | × .9576 | = Megabarye |
| | × .9576 | = Megadyne/Sq Centimeter |
| | × .7182 | = Meter Mercury: 32F-32.2 fpss |
| | × 9.774 | = Meter Water: 59F-32.2 fpss |
| | × 95760. | = Newton/Sq Meter |
| | × 2000. | = Pound/Square Foot |
| | × 13.8889 | = Pound/Square Inch |
| Ton Short/Year | × 103.49124 | = Gram/Hour |
| | × 2.48379 | = Kilogram/Day |
| | × 28.74767 | = Milligram/Second |
| | × 3.65051 | = Ounce Avoir/Hour |
| | × 5.47582 | = Pound Avoir/Day |
| | × .22816 | = Pound Avoir/Hour |
| | × .90719 | = Ton Metric/Year |
| Topeka Kansas Heating Load | = 5280. | = Degree-Day |
| Torque: Foot-Pound × cuin Displacement | × .00019 | = Brake HP |
| Foot-Pound × rpm | × .000190399 | = Brake Horsepower |
| | = 5250. | × Horsepower |
| Inch-Pound × rpm | × .4/0158665 | = Brake Horsepower |
| | = 63025. | × Horsepower |
| | × 2.4 | = In-Lb Unsupported Shaft |
| | × 1.5 | = Inch-Pound Starting |
| Physical Unit | | = Poundal-Foot |
| Technical Unit | | = Pound-Force-Foot |
| Torus: Thickness × Mean Radius | × 39.4784 | = Convex Surface Area |
| Thickness Squared × Mean Radius | × 19.7392 | = Volume |
| Township | × 23040. | = Acre |
| | × 93240. | = Hectare |
| | × 144. | = Quarter-Section |
| | × 36. | = Section |
| | × 93.240 | = Square Kilometer |
| | × 36. | = Square Mile |
| Transite: Specific Heat | = .20 | = Btu/Pound/°F |
| Trapezium: Divided into Two Triangles | = .5(B+b)(A+a) | = Area |

Make Ends Triangles, Center Section Trapezoid, Add Areas for Total Area

| | | |
|---|---|---|
| Trapezium: Sum of Triangles Altitudes | × .5(B+b) | = Area |
| Sum of Triangles Bases | × .5(A+a) | = Area |
| Quadrilateral with no Parallel Sides. | | |
| Trapezoid: Base + Side × Height | × .5 | = Area |
| Large Plus Small Base × Height | × .5 | = Area |
| Quadrilateral with two Bases Parallel. | | |
| Trap Rock: Crushed: Cubic Foot | × 97 to 107 | = Pound (Spg 3.0) |
| Triangle: Equilateral: Height | × 1.15466 | = Side |
| Side | × .86605 | = Altitude |
| Side Squared | × .43301 | = Area |
| General Formula: Sq Root of s(s-a)(s-b)(a-c) | | = Area (s = a + b + c) |
| Right: Height × Base | × .5 | = Area |
| Right: Height Squared | + Base Squared | = Diagonal Squared |
| Sin A × Diagonal × Base | × .5 | = Area |
| Trigonometric Functions: Sin A | = a/c | = Opposite Side/Hypotenuse |
| Cos A | = b/c | = Adjacent Side/Hypotenuse |
| Tan A | = a/b | = Opposite Side/Adjacent Side |
| Csc A | = c/a | = 1/Sin A |
| Sec A | = c/b | = 1/Cos A |
| Cot A | = b/a | = 1/Tan A |
| Sin A/a | = Sin B/b | = Sin C/c |
| Trillion | × .001 | = Billion |
| Trisodium Phosphate + Calcium Carbonate | | = Calcium Phosphate + Sodium Carbonate |
| + Calcium Sulfate | | = Calcium Phosphate + Sodium Sulfate |
| Tsubo | × 35.58 | = Square Foot US |
| Tsun | × 1.26 | = Inch US |
| Tubing: Area Sqin × Feet Filled | = 808.5 | = Barrel (42) (See Casing) |
| × Feet Long | × .001237 | = Barrel (42) |
| ×100 Ft Long | × .1237 | = Barrel (42) |
| Base Area | × Height | = Volume (See Pipe) |
| Base Perimeter | × Height | = Lateral Area |
| Circumference Squared × Length | × .07957747 | = Volume (See Cylinder) |
| Copper: Inch Wall Thick × psi Tensile | × .1666 | = Inch Radius × psi Max Wk Press |
| Tubing: Diameter Foot × Foot Long | × 3.1416 | = Sqft Lateral Area |
| | × 452.389248 | = Sqin Lateral Area |
| Diameter Foot × Inch Long | × .2617989 | = Sqft Lateral Area |
| | × 37.69908 | = Sqin Lateral Area |
| Diameter × Length | × 3.1416 | = Lateral Area |
| Diameter Inch × Foot Long | × .2617989 | = Sqft Lateral Area |
| | × 37.69908 | = Sqin Lateral Area |
| Diameter Inch × Inch Long | × .021816 | = Sqft Lateral Area |
| | × 3.1416 | = Sqin Lateral Area |
| Diameter Squared Foot × Foot Long | × .139885 | = Barrel (42) |
| | × .785398 | = Cubic Foot |
| | × 1357.168 | = Cubic Inch |
| | × 5.87517 | = Gallon US |
| | × .74613 | = Sack Cement |
| Diameter Squared Foot × Inch Long | × .01165 | = Barrel (42) |
| | × .0654415 | = Cubic Foot |
| | × 113.09734 | = Cubic Inch |
| | × .489597 | = Gallon US |
| | × .06206 | = Sack Cement |
| Tubing: Diameter Squared × Length | × .7854 | = Cubic Volume |
| Diameter Squared Inch × Feet Filled | = 1029.4 | × Barrel (42) |
| Diameter Squared Inch × Foot Long | ×.0009714234 | = Barrel (42) |
| × 100 Foot | × .0971428 | = Barrel (42) |
| × 1000 Foot | × .971428 | = Barrel (42) |
| × Foot Long | × .00545412 | = Cubic Foot |
| | × 9.4247784 | = Cubic Inch |
| | × .0408 | = Gallon US |
| | × .2652 | = Pound Crude Oil Weight |
| | × .34 | = Pound Water Weight |
| | × .005177 | = Sack Cement |
| Diam Squared Inch × Ft Fill-up × Hour | × .023312 | = Bbl(42)/Day Est Production |
| Diameter Squared Inch × Ft/Min | × .00545 | = Cubic Feet/Second |
| | × .0408 | = Gallon Water/Minute |

| | | |
|---|---|---|
| Tubing: Diameter Squared Inch × Ft/Sec | × .327 | = Cubic Feet/Minute |
| | × 2.44798 | = Gallon Water/Minute |
| Diameter Squared Inch × Inch Long | × .4/o8095195 | = Barrel (42) |
| | × .00045451 | = Cubic Foot |
| | × .785398 | = Cubic Inch |
| | × .0034 | = Gallon US |
| | × .000431 | = Sack Cement |
| Tubing: Ft Head Friction Loss × Diam Foot | × 3220.20 | = fps Squared × Ft Long |
| × Diam Inch | × 268.35 | = fps Squared × Ft Long |
| Feet/Second Squared × Foot Long | × .0003105 | = Ft Diam × Ft Hd Frict Loss |
| | × .003726 | = In Diam × Ft Hd Frict Loss |
| Inch ID Squared × Inch Thick | × .8 | = Section Modulus |
| Inside Radius × Length | × 6.28318 | = Area Internal |
| OD Minus Thickness × Thickness | × 10.68 | = Pound Weight/Foot |
| OD Minus Thickness × Thickness | × 28.2 | = Ton Wgt/Mile |
| OD Minus Thickness × Thick × Length | × 3.1416 | = Cubic Inch of Metal |
| Outside Diameter × Thickness | × 3.1416 | = Sqin Metal Area: Section |
| Outside Radius × Length | × 6.28318 | = Area External |
| Radius × Length | × 6.28318 | = Lateral Area |
| Radius Squared × Length | × 3.1416 | = Volume |
| Rectangle: (A + B - 2t") × Inch Thick | × 6.8 | = Pound Wgt/Foot |
| Regular: Number Joint × Inch Diam | × .45 + .9 | = Inch Make-up Loss |
| Square: (Inch Diam Minus Inch Thick) | × 13.6 × Inch Thick | = Pound Wgt/Foot |
| Upset End Smls: Joint × Inch Diam | × .35 + 1.4 | = Inch Make-up Loss |
| Tulsa Heating Load | = 3500. | = Degree-Day |
| Tumbler | × 8. | = Fluid Ounce US |
| Tun | × 252. | = Gallon Liquid US |
| | × 953.8956 | = Liter |
| | × 2. | = Pipe |
| | × 3. | = Puncheon |
| Tungsten: (W): #74:183.92 AW: SpHt .032: gm/cc 19.3 | | |
| Linear Expansion: Inch | × 2.2 | = Micro-Inch/Degree F |
| Two-Gram (Bennett System) | = 100. | = Gram |
| Typp (Cotton-Woolen) | × 1000. | = Yard/Pound Avoir |
| $U_{235}$ Fissions/Second | = .10/o321 | = Watt |
| Fissioned: Gram | × 23000. | = Kw-hr(Heat Generated) |
| Ultimate Oil Recovery: Flow and Pump | = 20-40% | = Of Original Sand Volume |
| Ultra-Violet | = 4000. | = Angstrom |
| | = 15.7 | = Micro-Inch |
| Unit | × Number | = Quantity |
| U | × N | = Q |
| UN | = un | = Q |
| U | = unN | = Unit Relation |
| UN = N(Nn × u) | = u(N × Nn) | = Q |
| U/Y | × N | = u/y(=1/1) |
| (a/b)/(x/y) | = (a/b)(y/x) | = ay/bx |
| (a/b)/x | = (a/b)(1/x) | = a/bx |
| (a/b)+(x/y) | = (ay/by)+(bx/by) | = (ay + bx)/by |
| | = (a/b)(x/y) | = ax/by |
| (a/b)x | = (a/b)(x/1) | = ax/b |
| | a:b::c:d | = (a/b = c/d) |
| | (a/b = c/d) | = (ad = bc) |
| | (a/b = c/d) | = (a + b)/b = (c + d)/d |
| | (a/b = c/d) | = (a - b)/b = (c - d)/d |
| (a/b = c/d) | = (a + b)/(a - b) | = (c + d)/(c - d) |
| Unit Charge/Second | × .15/o16 | = Microamp |
| Unodecagon: Short Radius Squared | × 3.22993 | = Area |
| Width of Side Squared | × 9.365640 | = Area |
| Uranium: (U): #92:233.07 AW: SpHt .028: gm/cc 18.7 | | |
| (Geiger): Metric Ton of Ore × U | × 25. | = Gram Uranium (See Geiger) |
| | × .875 | = Ounce Uranium |
| US Dry Measure | × .969 | = Dry Measure British |
| USPX1 Unit (A and D) | × 1.0 | = International Unit |
| | × 2.0 | = Sherman Unit |
| USPX1 Unit C | × .05 | = Milligram |

U

| | | |
|---|---|---|
| USPX1 Unit C | × 1.0 | = International Unit |
| | × .1 | = Sherman Unit |
| U-Tube: psia Baro Press + #/cuft Liq Den | × Tubes Inch Diff | × .0005787 = psia |
| **V** | | |
| Vacuum Cleaner | = 125. | = Watt (Avg Use) |
| Vacuum Pressure | - Atmos Press | = Absolute Pressure |
| Valence (See end of "V" Section) | See Individual Element or Compound Name | |
| Valve: Angle: Water Flow Resistance: d" | × 3.33 | = Equiv Feet Straight Pipe |
| D' | × 40. | = Equiv Feet Straight Pipe |
| Gate: Water Flow Resistance: d" | × .9 | = Equiv Feet Straight Pipe |
| D' | × 11. | = Equiv Feet Straight Pipe |
| Globe: Water Flow Resistance: d" | × 7.5 | = Equiv Feet Straight Pipe |
| D' | × 90. | = Equiv Feet Straight Pipe |
| 1-3": Air Flow Resistance: d" | × 5.5 - 3.5 | = Equiv Feet Straight Pipe |
| 4-8": Air Flow Resistance: d" | × 8.25 - 13. | = Equiv Feet Straight Pipe |
| Vanadium: (V): #23:50.95 AW: SpHt .120: gm/cc 6.0: | | |
| Var | × 1.0 | = Reactive Power Unit |
| | × 1.0 | = Reactive Volt-Ampere |
| Vara | × 2.7777 | = Feet |
| | × 33.3333 | = Inch |
| | × .9259 | = Yard |
| Vedro | × 750. | = Cubic Inch |
| | × 2.7 | = Gallon Liquid British |
| | × 3.247 | = Gallon Liquid US |
| | × 10. | = Krushky (stoof) |
| | × 12.299 | = Liter |
| | × 25.976 | = Pint |
| | × 12.988 | = Quart |
| Velocity | × Mass | = Momentum |
| Velocity: Square Foot of Feet Height | × 8.02 | = Falling Feet/Second |
| Ventilation and Cooling | = 1.0 | = Change of Air/Minute |
| Verst | × 1066.0 | = Meter |
| | × 500. | = Saschen |
| Violet | = 4240. | = Angstrom |
| | = 16.7 | = Micro-Inch |
| Viscosity Absolute | = Centipoise | = Dyne-Sec/Sqcm |
| | = Poise | = Dyne-Sec/Sqcm |
| | × cm-sec | = Gram |
| | = Reyn | = Lb-Sec/Sqin |
| | × sec-ft | = Pound |
| Viscosity Kinematic | × Density | = Centipoise Abs Viscosity |
| | × Density | = Reyn Abs Viscosity |
| Viscosity Kinematic = Centipoise/Density | = .22 × Sec | - (180/Sec) = Centistoke |
| Centistoke | × Density | = Centipoise Abs Viscosity |
| × Density | = Centistoke | = Absolute Viscosity Centipoise |
| = Reyn/Density lb-sec sqd/Inch 4th Power | | = Sqin/Second |
| Sqft/Sec × Density Lb-Mass = Abs Viscosity Pound-Force-Sec/Sqft | | |
| Sqft/Sec × Density Lb-Force = Abs Viscosity Pound-Force-Sec/Sqft | | |
| Viscosity: (Seconds Efflux × .00226)-(1.95/Second Efflux) | | = Saybolt Universal (Sec = -100) |
| (Seconds Efflux × .00220)-(1.35/Second Efflux) | | = Saybolt Universal (Sec = +100) |
| (Seconds Efflux × .0224)-(1.84/Second Efflux) | | = Saybolt Furol (Sec = -40) |
| (Seconds Efflux × .0216)-( .60/Second Efflux) | | = Saybolt Furol (Sec = +40) |
| (Seconds Efflux × .00260)-(1.79/Second Efflux) | | = Redwood #1 Second (Sec =-100) |
| (Seconds Efflux × .00247)-( .40/Second Efflux) | | = Redwood #1 Second(Sec=+100) |
| (Seconds Efflux × .027)-(20/Second Efflux) | | = Redwood Admiralty |
| (Seconds Efflux × .00147)-(3.74/Second Efflux) | | = Engler Degree |
| (Engler Degree × .09261)-(.0729/Engler Degree) | | = Centistoke |
| (Redwood Second × .26)-(172/Redwood Second) | | = Centistoke |
| (Saybolt Second × .220)-(180/Saybolt Second) | | = Centistoke (Sec = -50) |
| (Saybolt Second × .220)-(195/Saybolt Second) | | = Centistoke (Sec = 50-100) |
| (Saybolt Second × .220)-(135/Saybolt Second) | | = Centistoke (Sec = +100) |
| Visible Spectrum | = 400 to 800 | = Millimicron |
| Volt (E)(EMF) | × 1(8/o). | = Abvolt |
| | × 1. | = Electrical Pressure Unit |
| | × 1(8/o). | = Electromagnetic Unit |
| | × 1.0 | = Electromotive Force Unit |

| | | |
|---|---|---|
| Volt (E)(EMF) | × .0033358 | = Electrostatic Unit |
| | × 1(8/o). | = Line/Second |
| | × 1(6/o). | = Microvolt |
| | × 1000. | = Millivolt |
| | × 1.0 | = Potential Difference Unit |
| | × .0033358 | = Statvolt |
| | × 1.0 | = Volt Absolute |
| | × .99966 | = Volt International |
| | × Ampere | = Volt-Ampere |
| | × Ampere | = Watt |
| | × Ampere-Second | = Joule |
| | × Ampere-Second | = Watt-Second |
| | × Coulomb | = Joule |
| | × Coulomb | = Watt-Second |
| | × Farad | = Coulomb |
| | × Mho Admittance | = Ampere |
| Voltage Reaction × Amp-Hr/Gram | × 1.3411 | = Horsepower-Hour/Kilogram |
| × Amp-Hr/Gram | × .60786 | = Horsepower-Hour/Pound |
| × Kg/HP-Hr | = .7465 | × Gram/Ampere-Hour |
| × Kg/HP-Year | = 6543.8 | × Gram/Ampere-Hour |
| × Lb/HP-Hr | = 1.6457 | × Gram/Ampere-Hour |
| × Lb/HP-Year | = 14426.5 | × Gram/Ampere-Hour |
| Volt × Ampere | × Hour | = Watt-Hour |
| | × Power Factor | = Watt |
| | × Second | = Joule |
| | × Second | = Watt-Second |
| × Ampere × Hour | × .001 | = Kilowatt-Hour |
| | × .2389 | = Gram-Calorie/Hour |
| × Ampere × Minute | × .2389 | = Gram-Calorie/Minute |
| × Ampere × Second | × .2389 | = Gram-Calorie/Second |
| × Ampere × Time | × .2389 | = Heat |
| Volt-Ampere | × 1.0 | = Apparent Power Unit |
| Volt/Centimeter | × 1(8/o). | = Abvolt/Centimeter |
| | × 1. | = Field Intensity Unit |
| | × .001 | = Kilovolt/Centimeter |
| | × 1(8/o). | = Microvolt/Centimeter |
| | × 1(5/o). | = Millivolt/Meter |
| | × .003335 | = Statvolt/Centimeter |
| | × 2.54 | = Volt/Inch |
| | × 100. | = Volt/Meter |
| | × .00254 | = Volt/Mil |
| Volt DC × Ampere | × .001 | = Kilowatt |
| × Ampere × % Efficiency | × .00134 | = Horsepower Elec. |
| Volt Electron | × 1602(9/o). | = Erg |
| Volt/Inch | × 3937(4/o). | = Abvolt/Centimeter |
| | × .0003937 | = Kilovolt/Centimeter |
| | × 3937(4/o). | = Microvolt/Meter |
| | × 39370. | = Millivolt/Meter |
| | × .001313 | = Statvolt/Centimeter |
| | × .3937 | = Volt/Centimeter |
| | × 39.37 | = Volt/Meter |
| | × .001 | = Volt/Inch |
| Volt International | × 1.00034 | = Volt Absolute |
| Volt/Meter | × 1(6/o). | = Abvolt/Centimeter |
| | × .4/o1 | = Kilovolt/Centimeter |
| | × 1(6/o). | = Microvolt/Meter |
| | × 1000. | = Millivolt/Meter |
| | × .4/o3335 | = Statvolt/Centimeter |
| | × .01 | = Volt/Centimeter |
| | × .0254 | = Volt/Inch |
| | × .4/o254 | = Volt/Mil |
| Volt/Mil | × 3937(7/o). | = Abvolt/Centimeter |
| | × .3937 | = Kilovolt/Centimeter |
| | × 3937(7/o). | = Microvolt/Meter |
| | × 3937(4/o). | = Millivolt/Meter |
| | × 1.313 | = Statvolt/Centimeter |

# CONVERSION FACTORS

| | | | |
|---|---|---|---|
| Volt/Mil | × 393.7 | = Volt/Centimeter | |
| | × 1000. | = Volt/Inch | |
| | × 39370. | = Volt/Meter | |
| Volt × Power Factor | × Ampere | = Watt | |
| Single Ph × Amp | × .001 | = Kilovolt-Ampere | AC |
| 2 Ph-4 Wire × Amp | × .002 | = Kilovolt-Ampere | AC |
| 3 Ph × Amp | × .00173 | = Kilovolt-Ampere | AC |
| Single Ph × Amp × PF | × .001 | = Kilowatt | AC |
| 2 Ph-4 Wire × Amp × PF | × .002 | = Kilowatt | AC |
| 3 Ph × Amp × PF | × .00173 | = Kilowatt | AC |
| Single Ph × Amp × PF × % Eff | × .00134 | = HP Elec | AC |
| 2 Ph-4 Wire × Amp × PF × % Eff | × .00268 | = HP Elec | AC |
| 3 Ph × Amp × PF × % Eff | × .002319 | = HP Elec | AC |
| Volt × Second | × 1(8/o). | = Line | |
| Volt-Second | × 1(5/o). | = Kiloline | |
| | × 1(8/o). | = Maxwell | |
| Volt-Second/Square Centimeter | × 6.452 | = Volt-Second/Square Inch | |
| Volt-Second/Square Inch | × .1550 | = Volt-Second/Sq Centimeter | |
| Volume, Unit | × Density | = Weight | |
| Valences: Acetate | = -1 | = $C_2H_3O_2$ | |
| Aluminum | = +3 | = Al | |
| Ammonium | = +1 | = $NH_4$ | |
| Antimonic | = +5 | = Sb | |
| Antimony | = +3 | = Sb | |
| Arsenate | = -3 | = $AsO_4$ | |
| Arsenic | = +5 | = As | |
| Arsenite | = -3 | = $AsO_3$ | |
| Arsenous | = +3 | = As | |
| Barium | = +2 | = Ba | |
| Bicarbonate | = -1 | = $HCO_3$ | |
| Bismuth | = +3 | = Bi | |
| Bisulfate | = -1 | = $HSO_4$ | |
| Bisulfite | = -1 | = $HSO_3$ | |
| Boron | = +3 | = B | |
| Bromide (Bromine) | = -1 | = Br | |
| Valences: Cadmium | = +2 | = Cd | |
| Calcium | = +2 | = Ca | |
| Carbide | = -4 | = C | |
| Carbon | = +4 | = C | |
| Carbonate | = -2 | = $CO_3$ | |
| Chlorate | = -1 | = $ClO_3$ | |
| Chloride | = -1 | = Cl | |
| Chlorine | = -1 | = Cl | |
| Chromate | = -2 | = $CrO_4$ | |
| Chromic | = +3 | = Cr | |
| Cupric | = +2 | = Cu | |
| Cuprous | = +1 | = Cu | |
| Cyanide | = -1 | = CN | |
| Ferric | = +3 | = Fe | |
| Ferrous | = +2 | = Fe | |
| Flouride | = -1 | = F | |
| Valences: Hydrogen | = +1 | = H | |
| Hydroxide | = -1 | = OH | |
| Iodide | = -1 | = I | |
| Lead | = +2 | = Pb | |
| Lithium | = +1 | = Li | |
| Magnesium | = +2 | = Mg | |
| Manganese | = +2 | = Mn | |
| Mercuric | = +2 | = Hg | |
| Mercurous | = +1 | = Hg | |
| Nickel | = +2 | = Ni | |
| Nitrate | = -1 | = $NO_3$ | |
| Nitric (Nitrogen) | = +5 | = N | |
| Nitride | = -3 | = N | |
| Nitrite | = -1 | = $NO_2$ | |
| Oxide | = -2 | = O | |

| | | |
|---|---|---|
| Valences: Permanganate | = −1 | = $MnO_4$ |
| Phosphate | = −3 | = $PO_4$ |
| Phosphide | = −3 | = P |
| Phosphoric | = +5 | = P |
| Phosphorous | = +3 | = P |
| Potassium | = +1 | = K |
| Silicon | = +4 | = Si |
| Silver | = +1 | = Ag |
| Sodium | = +1 | = Na |
| Sulfate | = −2 | = $SO_4$ |
| Sulfide | = −2 | = S |
| Sulfite | = −2 | = $SO_3$ |
| Stannic | = +4 | = Sn |
| Stannous | = +2 | = Sn |
| Sulfur | = −2 | = S |
| Zinc | = +2 | = Zn |

W

| | | |
|---|---|---|
| Waffle Iron Up to | = 1000. | = Watt Avg Use |
| Wallpaper: Feet Around Room | × .1111 | = Number Rolls Needed |
| Square Feet in Room | × .01375 | = Number Rolls Needed |
| Washing Machine: Home Automatic | = 700 | = Watt Avg Use |
| Water | = 79.24 | = Btu (Latent Heat) |
| | = .435 | = Btu/Pound (Cp) |
| | = .324 | = Btu/Pound (Cv) |
| | = 8.065 | = Molal |
| | = 1.00000 | = Relative Volume 39.1F |
| | = 1.00025 | = Relative Volume 50F |
| | = 1.00083 | = Relative Volume 59F |
| | = 1.00171 | = Relative Volume 68F |
| | = 1.00425 | = Relative Volume 77F |
| | = 1.00586 | = Relative Volume 95F |
| | = 1.00767 | = Relative Volume 104F |
| | = 1.04332 | = Relative Volume 212F |
| | = 1.94 | = Slug/Cubic Foot 32F |
| | = 1.938 | = Slug/Cubic Foot 60F |
| | = 1.0000 | = Spg 4C or 39.2F |
| | = .958 | = Spg 100C or 212F |
| Water: Barrel (31.5) | × 4.2109 | = Cubic Feet |
| | × 7276.5 | = Cubic Inch |
| Water: Barrel (42) 39.2F | × 350.49 | = Pound |
| 60F | × 350.16 | = Pound |
| Water: Barrel (42)/Day | × 1.75 | = Gal/Hour |
| | × .02916 | = Gal/Minute |
| | × .000486 | = Gal/Second |
| Water: Barrel (42)/Hour | × .09357 | = Cuft/Minute |
| | × 2.694 | = Cuin/Second |
| | × .2859 | = Diam Inch Squared × fps |
| | × .7 | = gpm |
| Water: Barrel US/Day | × 1.3125 | = Gal/Hour |
| | × .021875 | = Gal/Minute |
| | × .0003646 | = Gal/Second |
| Water: Boiler Feed: Chloride | = 6 ppm | = Max in Terms of Chlorine |
| Dissolved Oxygen | = .05 | = cc/Liter Maximum |
| Hardness | = 26 ppm | = Max in Terms of Cal Carbonate |
| Oil | = None | |
| Organic Matter | = .5 | = ppm Maximum |
| pH Value | = 7.0 | = Not Less Than |
| Water: Cast Iron Radiation: Sqft | × 66. | = Btu/Degree-Day (Consumes) |
| | × 150. | = Btu/Hour (Transmits) |
| Water: Compressibility: Atmosphere | × .4/o51 | = Volume (Maximum) |
| Water: Cooling: °F × gpm × °F Liquid Temp Drop | × 8.33 | = Btu/Hour |
| Water: Cubical Expansion @ 70F | = 115. | = Parts/Million/°F |
| Water: Cubic Centimeter | × .99997 | = Gram 39.1F |
| | × .998844 | = Gram 62F |
| Water: Cubic Foot 39.1F | × 1646. | = Cubic Feet of Steam |
| | × .028317 | = Cubic Meter |

| | | |
|---|---|---|
| Water: Cubic Foot 39.1F | × 6.232102 | = Gallon British |
| | × 7.480519 | = Gallon Liquid US |
| | × 28.317 | = Liter |
| | × 62.425 | = Pound (Maximum Density) |
| | × .00284 | = Ton Long |
| 60F | × 62.366 | = Pound |
| 62F | × 62.355 | = Pound |
| 70F | × 62.2987 | = Pound |
| 100F | × 62.0 | = Pound |
| 130F | × 61.55 | = Pound |
| 170F | × 60.8 | = Pound |
| 200F | × 60.12 | = Pound |
| 212F | × 26.8 | = Cuft Steam 14.7 psia |
| 212F | × 59.83 | = Pound |
| 212F Evaporated At | × 7.5 | = Pound Coal Practical |
| | × 4.4 | = Pound Coal Heat Value |
| Water: Cubic Foot/Day | × .0417 | = Cuft/Hour |
| | × .000694 | = Cuft/Minute |
| | × .4/o1157 | = Cuft/Second |
| Water: Cubic Foot/Hour | × 24. | = Cuft/Day |
| | × .01666 | = Cuft/Minute |
| | × .0002777 | = Cuft/Second |
| | × 7.48 | = Gal/Hour |
| | × .1247 | = gpm |
| | × .002078 | = Gal/Second |
| Water: Cubic Foot Million | × 22.95 | = Acre-Foot |
| Water: Cubic Foot Million/Day | × 4166.67 | = Cuft/Hour |
| | × 694.446 | = Cuft/Minute |
| | × 11.5741 | = Cuft/Second |
| Water: Cubic Foot/Minute | × 256.464 | = Bbl(42)/Day |
| | × 10.686 | = Bbl(42)/Hour |
| | × .1781 | = Bbl(42)/Minute |
| | × .002968 | = Bbl(42)/Second |
| | × 471.950 | = cucm/Second |
| | × 1440. | = Cuft/Day |
| | × 60. | = Cuft/Hour |
| | × .01666 | = Cuft/Second |
| | × 103680. | = Cuin/Hour |
| | × 1728.0 | = Cuin/Minute |
| | × 28.800 | = Cuin/Second |
| | × .02832 | = Cubic Meter/Minute |
| | × 10771.2 | = Gal/Day |
| | × 448.83 | = Gal/Hour |
| | × 7.480519 | = Gal/Minute |
| | × .1247 | = Gal/Second |
| | × .4719 | = Liter/Second |
| | × 3741.3 | = Pound Water 62F/Hour |
| | × 62.425 | = Pound Water 39.1F/Minute |
| | × 62.355 | = Pound Water 62F/Minute |
| Water: Cubic Foot/Second | × 15387.43 | = Bbl(42)/Day |
| | × 641.16 | = Bbl(42)/Hour |
| | × 10.686 | = Bbl(42)/Minute |
| | × .1780959 | = Bbl(42)/Second |
| | × 86400. | = Cuft/Day |
| | × 3600. | = Cuft/Hour |
| | × 60. | = Cuft/Minute |
| | × 646316.8416 | = Gallon/Day |
| | × 2692.86 | = Gallon/Hour |
| | × 448.831 | = Gallon/Minute |
| | × 7.480519 | = Gallon/Second |
| | × .646316 | = Gallon Million/Day |
| | × 5387472. | = Pound Water 62F/Day |
| | × 224478. | = Pound Water 62F/Hour |
| | × 3741.3 | = Pound Water 62F/Minute |
| | × 62.355 | = Pound Water 62F/Second |
| Water: Cubic Inch 39.1F | × .003607 | = Gallon British |

| | | |
|---|---|---|
| Water: Cubic Inch 39.1F | × .004329 | = Gallon US |
| | × .576384 | = Ounce Avoir |
| 39.2F | × .036125 | = Pound Avoir |
| 60 F | × .03609 | = Pound Avoir |
| 212 F Evaporated at | × 1.0 | = Cubic Foot Steam (Approx) |
| Water: Cup | × .5 | = Pound Avoir |
| Waterfall: Cuft/Min × Feet Height | × .114 | = HP (100% Eff) |
| Cuft/Min × Feet Height | × .10032 | = HP ( 88% Eff) |
| Sq ft/Cross Section × Ft High × fps | × .001878 | = HP (100% Eff) |
| Water: Feet Head Friction Loss × Feet Diam | × 3220. | = fps Squared × Ft Pipe Length |
| Water: Feet/Second Squared | × .015625 | = Head in Feet |
| | × .015625 | = Ft Velocity Head |
| Water-Flooding: Five-Spot | = 72% | = Relative Efficiency |
| Regular Line Drive | = 71% | = Relative Efficiency |
| Seven-Spot | = 74% | = Relative Efficiency |
| Staggered Line Drive | = 80% | = Relative Efficiency |
| 2-Year Stripper | = 3000. | = Bbl/Acre Avg Efficiency |
| Water: Fresh: Pound | × 1.6 to 1.9 | = Pound Sea Water |
| Water: Gallon British 39.1F | × 277.420 | = Cubic Inch British |
| | × 277.418 | = Cubic Inch US |
| | × 1.20094 | = Gallon Liquid US |
| | × 4.537 | = Liter |
| 62F | × .16046 | = Cubic Foot |
| | × 277.274 | = Cubic Inch |
| | × 10. | = Pound |
| Water: Gallon/Day (gpd) | × .5/o1547 | = Cuft/Second |
| Water: Gallon/Hour (gph) | × .1337 | = Cuft/Hour |
| | × .002228 | = Cuft/Minute |
| | × .4/o371 | = Cuft/Second |
| | × .01666 | = gpm |
| | × .0002777 | = gps |
| Water: Gallon Million/Day | × 133680. | = Cuft/Day |
| | × 92.88 | = Cuft/Minute |
| | × 1.548 | = Cuft/Second |
| | × 694.44 | = gpm |
| | × 11.57 | = gps |
| Water: Gallon/Minute (gpm) | × 34.28 | = Bbl(42)/Day |
| | × 1.428 | = Bbl(42)/Hour |
| | × .0238 | = Bbl(42)/Minute |
| | × 192.5 | = Cuft/Day |
| | × 8.02 | = Cuft/Hour |
| | ×.1337 | = Cuft/Minute |
| | × .002228 | = Cuft/Second |
| | × 1440. | = Gallon/Day |
| | × 60. | = Gallon/Hour |
| | × .01666 | = Gallon/Second |
| | × 24.51 | = Pipe Diam Inch Squared × fpm |
| | × .4085 | = Pipe Diam Inch Squared × fps |
| | × .002228 | = Second/Foot |
| | × 5.35 | = Ton Long Water 62F/Day |
| | × 6.00 | = Ton Short Water 62F/Day |
| Water: Gallon/Minute/Day | × .0042 | = Acre-Foot |
| Water: Gallon/Minute × Feet Head | × .0002525 | = HP US (100% Pump Eff) |
| | × .000297 | = HP US ( 85% Pump Eff) |
| | × .0003885 | = HP US ( 65% Pump Eff) |
| | × .000505 | = HP US ( 50% Pump Eff) |
| Water: Gallon/Second (gps) | × 481. | = Cuft/Hour |
| | × 8.02 | = Cuft/Minute |
| | × .1337 | = Cuft/Second |
| | × 60. | = Gal/Minute |
| | × 3600. | = Gal/Hour |
| Water: Gallon US | × .5/o30688832 | = Acre-Foot |
| | × 3.78 | = Liter |
| Water: Gallon US: 39.1F | × .8326735 | = Gallon British |
| | × .8593649 | = Gallon Dry US |
| 39.2F | × 8.345 | = Pound |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Water: Gallon US: 60F | × 8.337 | = Pound |
| 62F | × .13368056 | = Cubic Foot |
| | × 231. | = Cubic Inch (Standard) |
| | × 8.3311 | = Pound |
| 65F | × 58330. | = Grain |
| 212F Evaporated At | × 1.0 | = Pound Coal Common |
| 7" Diameter | × 6" High | = Cylinder (Std Container) |
| Water: .5" Garden Hose: Hour Used | × 200. | = Gallon (with Nozzle) |
| .75" Garden Hose: Hour Used | × 300. | = Gallon (with Nozzle) |
| Water: Gram | × .03371 | = Fluid Ounce |
| Water: Head (See "Height"): Foot | × 64. | = fps Squared |
| Inch | × .0361 Density | = psi Fluid Head |
| | × #/cuin Density | = psi Fluid Head |
| Inch × Orifice Area Sqin | × 27.8 | = Cuin/Sec Flow Rate |
| Water: Heat Conductivity: k | = .343 | = Btu/(Hr-Sqft)(°F/Ft) |
| Water Heater: Home: | = 2-4000 | = Watt Avg Use |
| Water: Heat of Vaporization | | = Heat of Condensation |
| Water: Height: Centimeter 39.1F | × 980.639 | = Dyne/Square Centimeter |
| Water: Height: Feet 39.1F | × 62.425 | = Pound/Square Foot |
| | × .4335 | = Pound/Square Inch |
| Feet 39.2F | × .0294992 | = Atmosphere |
| | × 2.24198 | = Centimeter Mercury 32F |
| | × 29890.1 | = Dyne/Square Centimeter |
| | × 30.4794 | = Gram/Square Centimeter |
| | × .882647 | = Inch Mercury 32F |
| | × .03048 | = Kilogram/Square Meter |
| | × 22.42 | = Millimeter Hg 32F |
| | × 62.45 | = psf |
| Feet 59F | × .02947 | = Atmosphere |
| | × .03045 | = Atmosphere Metric |
| | × .8819 | = Inch Mercury 32F |
| | × 12. | = Inch Water 59F |
| | × .03045 | = Kilogram/Sq Centimeter |
| | × .02986 | = Megabar |
| | × .02986 | = Megadyne/Sq Centimeter |
| | × .02240 | = Meter Mercury 32F |
| | × .3048 | = Meter Water 59F |
| | × .4331 | = Pound/Sq Inch |
| | × .03119 | = Ton Short/Sq Foot |
| Water: Height: Feet 60F | × .4331 | = Pound/Square Inch |
| Feet 62F | × 819.6 | = Feet of Air 62F |
| | × .8816 | = Inch of Mercury |
| | × 6.92832 | = Ounce/Square Inch |
| | × 62.355 | = Pound/Square Foot |
| | × .43302 | = Pound/Square Inch |
| Feet 70F | × 14.5481 | = Inch Red Oil |
| | × .8843 | = Inch Mercury |
| | × .69221 | = Ounce/Square Inch |
| | × 62.2987 | = Pound/Square Foot |
| | × .4326 | = Pound/Square Inch |
| Water: Height: Inch 39.2F | × .002458 | = Atmosphere 76cm 32F |
| | × .002491 | = Bar |
| | × .1868 | = Centimeter Mercury 32F |
| | × .002491 | = Dyne/Sq Centimeter |
| | × .08333 | = Ft Water 39.2F=4C |
| | × .07355 | = Inch Mercury 32F |
| | × .00254 | = kg/Sqcm |
| | × 25.40 | = Kilogram/Square Meter |
| | × 1.868 | = Millimeter Hg 32F |
| | × .0002491 | = Newton/Square Meter |
| | × 5.204 | = Pound/Square Foot |
| | × .03613 | = Pound/Square Inch |
| | × .002601 | = Ton Short/Sq Foot |
| Inch 59F | × .002456 | = Atmosphere |
| | × .002538 | = Atmosphere Metric |
| | × .08333 | = Feet Water 59F |

| | | |
|---|---|---|
| Water: Height: Inch 59F | × .07349 | = Inch Mercury: 32F |
| | × .002538 | = Kilogram/Sq Centimeter |
| | × .002489 | = Megabar |
| | × .002489 | = Megadyne/Sq Centimeter |
| | × .001867 | = Meter Mercury: 32F |
| | × .02540 | = Meter Water: 59F |
| | × .03609 | = Pound/Sq Inch |
| | × .002599 | = Ton Short/Sq Foot |
| Inch 60F | × .03613 | = Pound/Square Inch |
| Inch 62F | × 68.3 | = Feet of Air 62F |
| | × .07347 | = Inch of Mercury |
| | × .5774 | = Ounce/Square Inch |
| | × 5.1966 | = Pound/Square Foot |
| | × .036085 | = Pound/Square Inch |
| Inch 70F | × 1.2123 | = Inch Red Oil(Min Seal Spg.827) |
| | × .5768 | = Ounce/Square Inch |
| | × .03605 | = Pound/Square Inch |
| Water: Height: Meter 59F | × .09670 | = Atmosphere |
| | × .09991 | = Atmosphere Metric |
| | × 3.281 | = Feet Water: 59F |
| | × 2.893 | = Inch Mercury: 32F |
| | × 39.37 | = Inch Water: 59F |
| | × .09991 | = Kilogram/Sq Centimeter |
| | × .09798 | = Megabar |
| | × .09798 | = Megadyne/Sq Centimeter |
| | × .07349 | = Meter Mercury: 32F |
| | × 204.633 | = Pound/Square Foot |
| | × 1.421 | = Pound/Square Inch |
| | × .1023 | = Ton Short/Sq Foot |
| Meter 62F | × 1.420666 | = Pound/Square Inch |
| Water: Inch | × 10. | = Inch of Snow (Common) |
| | × 1.0 | = Inch of Water |
| | × 14.0 | = Pint/Minute |
| | × 1.0 | = Waterinch |
| Water: Lawn Sprinkler: Front Foot of Lot | × .5 | = Hrs Watering to = 1" Rain |
| Hour Used | × 120. | = Gallon |
| Water Leak Loss: 1/32" Stream: Hour | × 7.5 | = Gallon 40 psi |
| 1/16" Stream: Hour | × 30. | = Gallon 40 psi |
| 1/8" Stream: Hour | × 113. | = Gallon 40 psi |
| 1/4" Stream: Hour | × 283. | = Gallon 40 psi |
| 1/2" Stream: Hour | × 1008. | = Gallon 40 psi |
| Water: Lift In Feet × Gallon US | × 8.35 | = Foot-Pound Work |
| Water Manometer: Sq Root of Inch Height | × 4000. | = Cuft/Min (Air Flow in Pipe) |
| Water-Oil Emulsion: To Raise Heat: % Water | × 193. + 149 | = Btu Heat/Bbl(42)/°F Raised |
| Water: Orifice Plate Meter: Sq Root Inch Height | × 2.315 | = Feet/Second |
| Water: Ounce Fluid US | × 1.735 | = Cubic Inch |
| | × .125 | = Cup |
| | × 2. | = Tablespoon |
| Water Pail (Common) | × 2.272 | = Gallon Liquid US |
| | × 19. | = Pound (Capacity) |
| Water: Percent in Crude Oil | × .032 | = Micromicrofarad Change |
| Water: Pipe: Area Square Inch × fpm | × .006944 | = Cuft/Sec |
| | = 144. | = Cuft/Sec |
| Water: Pipe: Diam Inch Squared × fpm | × .00545 | = Cuft/Sec |
| | × .0408 | = Gal Water/Min |
| | × .7854 | = Cuft/Min |
| Water: Pipe: fps Squared × Ft Long | × .0003105 | = Ft Diam × Ft Hd Frict Loss |
| fps Squared × Ft Long | × .003726 | = In Diam × Ft Hd Frict Loss |
| Water: Pipe: Ft Diam × Ft Head Frict Loss | × 3220.20 | = fps Squared × Ft Long |
| Water: Pipe: Inch Diam × Ft Head Frict Loss | × 268.35 | = fps Squared × Ft Long |
| Water: Pipe: Radius Inch Squared × fpm | × .0218166 | = Cuft/Sec |
| | × 1.308 | = Cuft/Min |
| | × 78.48 | = Cuft/Hour |
| | × 1883.52 | = Cuft/Day |
| Water: Pipe: 4th Power Inch Diam × Ft Velocity Head | = .00259 | × gpm Squared |
| 4th Power Inch Diam × Ft Velocity Head | = .00127 | × bbl(42)/Hr Squared |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Water: Pound 62F | × .01603489 | = Cubic Foot |
| | × 27.72 | = Cubic Inch |
| | × .10 | = Gallon Liquid British |
| | × .120 | = Gallon Liquid US |
| | × .4536 | = Kilogram |
| Pound 212F: Evaporated At | × 970. | = Btu Required |
| | × 1.763 | = Cuft Manufactured Gas |
| | × .8617 | = Cuft Natural Gas |
| | × 751300. | = Foot-Pound |
| | × .3813 | = Horsepower-Hour US |
| | × 1019000. | = Joule |
| | × 103900. | = Kilogram-Meter |
| | × .284 | = Kilowatt-Hour |
| | × .07414 | = Pound Anthracite |
| | × .066726 | = Pound Bituminous |
| | × .1549 | = Pound Dry Wood |
| | × .0507 | = Pound Fuel Oil |
| Water: Pound/Hour | × °F Temp Rise | = Btu Liberated/Hr |
| Water: Pound 62F/Hour | × .002673 | = Cuft/Min |
| | × .4/o4455 | = Cuft/Sec |
| | × 2.8794 | = Gal/Day |
| | × .1200 | = Gal/Hr |
| | × .0020 | = Gal/Min |
| | × .01666 | = Pound Water 62F/Min |
| Water: Pound 62F/Minute | × .01604 | = Cuft/Min |
| | × .002673 | = Cuft/Sec |
| | × 172.7658 | = Gal/Day |
| | × 7.1986 | = Gal/Hr |
| | × .1200 | = Gal/Min |
| | × 60. | = Pound Water 62F/Hr |
| Water: Pound/Square Inch | × 2.30947 | = Feet Head or Height 62F |
| Waterproofing: Brick or Tile: Gallon | × 1.0 | = Labor-Hour |
| Square Feet | × .0133 | = Gallon of Coating |
| Membrane: Number Plies | × .008 | = Labor-Hour/Square Foot |
| | × 3.2 | = Pound Tar-Asphalt/Sqft |
| | × 1.1 | = Sqft Felt-Burlap/Sqft |
| Rough Concrete: Gallon | × 1.0 | = Labor-Hour |
| Square Feet | × .0133 | = Gallon of Coating |
| Smooth Concrete: Gallon | × 1.5 | = Labor-Hour |
| Square Feet | × .008 | = Gallon of Coating |
| Stone: Square Feet | × .008 | = Gallon of Coating |
| Wood: Square Feet | × .004 | = Gallon of Coating |
| Wood or Stone: Gallon | × 1.5 | = Labor-Hour |
| Water: Pump: bbl/hr × spg × Ft Total Hd | × .000176678 | = Hydraulic Horsepower |
| | × 1.0 | = 5660. × Hyd HP |
| Water: Pump: bbl/Hr × Total Head psi | × 1.0 | = 2450. × Hyd HP |
| | × .00040818 | = Hydraulic Horsepower |
| Water: Pump: % Eff × % Motor Eff × Kw/kilo-Gallon/Hr | | = .00315 × spg × Ft Total Head |
| % Pump Efficiency | × Brake HP | = Hydraulic Horsepower |
| Water: Pump: Ft Discharge Head - Ft Suct Hd | | = Ft Total Head |
| Ft Discharge Head + Ft Suct Lift | | = Ft Total Head |
| Ft Static Suct Hd - Ft Suct Frict Hd | | = Ft Total Suction Head |
| Ft Suct Lift + Ft Static Suction Lift | | = Ft Total Suction Lift |
| Water: Pump: gpm × spg × Ft Total Hd | × .000252399 | = 3960. × Brake HP × % Pump Eff |
| | × .000252399 | = Hydraulic Horsepower |
| | × 8.33 | = 33000. × Hyd HP |
| Water: Pump: gpm × Total Head psi | × .00058343 | = Hydraulic Horsepower |
| | × 1.0 | = 1714. × Hyd HP |
| Water: Pump: Theoretical Horsepower | × 1.0 | = Hydraulic Horsepower |
| Water Pump: Home | = 700. | = Watt Avg Use |
| Water: Relative Volume @ °F | × #/cuft @ °F | = 62.4245 Pound/cuft |
| Water: Salt: Spg 1.154: Barrel (42) | × 404.2499 | = Pound 60F |
| Cubic Foot | × 71.970 | = Pound 60F |
| | × 1.99 | = Slug |
| Feet Head | × .500 | = Pound/Square Inch 60F |
| Water Sea | = 1.02 to 1.03 | = Specific Gravity |

| | | |
|---|---|---|
| Water Sea: Freezing Point | = 27. | = Degree F (Fresh Ice) |
| Water: Square Root Feet Head | × 8.0 | = Ft/Sec (Nozzle Discharge) |
| Square Root of psi | × 12.16 | = Ft/Sec (Nozzle Discharge) |
| Water: Surface Tension: Centimeter | × 71. | = Dyne 78F |
| Water: Tank: To Raise Heat: Pound Water × 1.1 | × °F | = Btu Required (+10% Loss) |
| Rise in °F × 1.1 | × Lb Water | = Btu Required (+10% Loss) |
| Rise in °F | × Pound Water | = Btu Required (No Loss) |
| Water: Temperature Rise in °F | × Pound/Hour | = Btu Liberated/Hr |
| Water: To Cool a Device: Gpm × °C Rise | × .264 | = Kilowatt (Dissipated) |
| Water: Ton Long | × 35.9249 | = Cubic Feet 62F |
| | × 224.0 | = Gallon Liquid British |
| | × 268.87217 | = Gallon Liquid US |
| Water: Ton Short | × 32.07 | = Cubic Feet 62F |
| | × 240.06433 | = Gallon Liquid US |
| Water Travels thru Oil Sand | = 35-250 | = Feet/Year (Average 70) |
| Water: Triple Point Pressure | = .4579 | = Centimeter Mercury |
| Triple Point Temperature | = 273.15 | = Degree C Absolute |
| Water Usage: Automatic Washing Machine | = 17. | = Gal/Load |
| Baths (Shower or Tub) | = 30. | = Gal/Day/Person |
| Dish Washer @ 3 Gal/Load | = 9. | = Gal/Day |
| Garden Hose (1/2" Nozzle) | = 200. | = Gal/Hour |
| Lavatory @ 2 Gal/Filling | = 24. | = Gal/Day |
| Sink | = 60. | = Gal/Day |
| Toilet | = 12. | = Gal/Day/Person |
| Water Vapor | = 1.277 | = Specific Heat Ratio |
| 32F-30"Hg: | = 85.7 | = Gas Constant |
| | = 18.016 | = Molecular Weight |
| | = .6223 | = Specific Gravity |
| Cubic Foot | × .050231 | = Pound |
| Pound | × 19.908 | = Cubic Feet |
| 60F-30"Hg: Cubic Foot | × .04764 | = Pound (Spg .62222) |
| Pound | × 20.99 | = Cubic Feet |
| Cubic Meter of Air @ 30C | × 30. | = gm (100% Humidity) |
| | × 20. | = gm ( 67% Humidity) |
| | × 15. | = gm ( 50% Humidity) |
| | × 0.0 | = gm ( 0% Humidity) |
| Degree Fahrenheit | × .00218778 | = Expan Coeff (Cv 76cm Hg) |
| Water: Viscosity: 32F=0C. | = 1.7921 | = Centipoise |
| 68F | = 2.42 | = Pound/Foot-Hour |
| 68.4F=20.20C | =1.000 | = Centipoise |
| Water Volume | × 1.0855 | = Ice Volume |
| Water Well: SW USA: Foot Depth × (.004 to .002) | + 74 | = °F Hole Temperature |
| Watt (W) | × 1.0 | = Active Power Unit |
| | × .05685 | = Btu/Minute |
| | × 3.4128 | = Btu/Hour |
| | × .0009477 | = Btu/Second |
| | × .000238889 | = Calorie Large/Second |
| | × .238889 | = Calorie Small/Second |
| | × 1. | = Electrical Power Unit |
| | × 1(7/o). | = Erg/Second |
| | × 2654.16 | = Foot-Pound/Hour |
| | × 44.2534 | = Foot-Pound/Minute |
| | × .737557 | = Foot-Pound/Second |
| | × 1423.82 | = Foot-Poundal/Minute |
| | × .000238889 | = Gram-Calorie/Second |
| | × .001360 | = Horsepower Metric |
| | × .001341 | = Horsepower US |
| | × 1.0 | = Joule/Second |
| | × .01433 | = Kilogram-Calorie/Minute |
| | × .238889 | = Kilogram-Calorie/Second |
| | × .10198 | = Kilogram-Meter/Second |
| | × .001 | = Kilowatt |
| | × 13.66 | = Lumen (Light Bulb Eff) |
| | × 680.272 | = Lumen (Radiation Equiv) |
| | × .001020 | = Poncelet |
| | × 312(8/o). | = $U^{235}$ Fission/Second |

# CONVERSION FACTORS

| | | |
|---|---|---|
| Watt (W) | × 1.0 | = Volt-Ampere |
| | × 1.0 | = Watt Absolute |
| | × .9998 | = Watt International |
| | × Lumen/Watt | = 12.566 × Candlepower |
| | × Lumen/Watt | = Lumen |
| | × Ohm | = Volt Squared |
| | × Second | = Joule |
| Watt Absolute | × 1.0 | = Watt (Commonly written) |
| Watt-Hour (whr) | × 1. | = Ampere-Hour/Volt |
| | × 3.4128 | = Btu |
| | × 36(9/o). | = Dyne-Centimeter |
| | × 36(9/o). | = Erg |
| | × 1.0 | = Energy Unit |
| | × 2655.4 | = Foot-Pound |
| | × 859.975 | = Gram-Calorie |
| | × 3671(4/o). | = Gram-Centimeter |
| | × .00134102 | = Horsepower-Hour US |
| | × .00013596 | = Horsepower Metric-Hour |
| | × 4.89456 | = Horsepower Metric-Second |
| | × 4.8276 | = Horsepower US-Second |
| | × 3600. | = Joule Int. |
| | × .859975 | = Kilogram-Calorie |
| | × 367.1 | = Kilogram-Meter |
| | × .001 | = Kilowatt-Hour |
| | × 3.6 | = Kilowatt-Second |
| | × .5027 | = Mile-Pound |
| | × 1.8972 | = Pound-Chu |
| | × 3600. | = Watt-Second |
| Watt-Hour/Second | × 3600. | = Watt |
| Watt International | × 1.000165 | = Watt |
| | × 1.000165 | = Watt Absolute |
| Watt × Lumen/Watt | × .0795877 | = Candlepower |
| Watts Convected/Sqin Vert Surface in Air | = .0014 × (Rise °C)× (4th Root of Rise °C) | |
| Watt-Second | × .0009477 | = Btu |
| | × 1(7/o). | = Dyne-Centimeter |
| | × 1(7/o). | = Erg |
| | × .23888 | = Gram-Calorie |
| | × 10197.16 | = Gram-Centimeter |
| | × .737557 | = Foot-Pound |
| | × .6/o372506 | = Horsepower-Hour |
| | × .00136 | = Horsepower Metric-Second |
| | × .4/o22350 | = Horsepower US-Minute |
| | × .00134102 | = Horsepower US-Second |
| | × 1. | = Joule |
| | × .3/o23888 | = Kilogram-Calorie |
| | × .1019716 | = Kilogram-Meter |
| | × .6/o2777 | = Kilowatt-Hour |
| | × .001 | = Kilowatt-Second |
| | × .000527 | = Pound-Chu |
| | × .3/o2777 | = Watt-Hour |
| Watt × Second | × 1(7/o). | = Dyne-Centimeter |
| | × 1(7/o). | = Erg |
| Watt/Square Centimeter | × 76081. | = Btu/Day/Sqft |
| | × 3170. | = Btu/Hr/Sqft |
| | × 859.68 | = Gram-Calorie/Hr/Sqcm |
| | × .2388 | = Gram-Calorie/Sec/Sqcm |
| Watt/Square Centimeter/°C | × 42267. | = Btu/Day/Sqft/°F |
| | × 1761. | = Btu/Hr/Sqft/°F |
| | × 859.68 | = Gram-Calorie/Hr/Sqcm/°C |
| | × .2388 | = Gram-Calorie/Sec/Sqcm/°C |
| Watt/Square Centimeter/Centimeter/°C | × 16641. | = Btu/Day/Sqft/In/°F |
| | × 57.79 | = Btu/Hr/Sqft/Ft/°F |
| | × 693.5 | = Btu/Hr/Sqft/Inch/°F |
| | × 859.68 | = Gram-Calorie/Hr/Sqcm/cm/°C |
| | × .2388 | = Gram-Calorie/Sec/Sqcm/cm/°C |
| Watt/Square Inch | × 8.19 | = Btu/Sqft/Minute |

| | | |
|---|---|---|
| Watt/Square Inch | × 6371. | = Foot-Pound/Sqft/Minute |
| | × .193 | = Horsepower/Square Foot |
| Watt/Square Inch/°F | × 11764.7 | = Btu/Day/Sqft/°F |
| | × 490.2 | = Btu/Hr/Sqft/°F |
| | × 239.37 | = gm-cal/Hr/Sqcm/°C |
| | × .06647 | = gm-cal/Sec/Sqcm/°C |
| | × .19313 | = HP/Sqft/°F |
| | × 2392.15 | = Kg-cal/Hr/Sqm/°C |
| | × 490.2 | = pcu/Hr/Sqft/°C |
| | × 863235.3 | = Thermal Ohm/Sqcm |
| | × .27833 | = Watt/Sqcm/°C |
| Watts Radiated/Sqin Cast Iron Surface | = .8/o92 × (Hot Body °K⁴ - Ambient or Wall °K⁴) | |
| /Sqin Steel Surface | = .7/o2576 × (Hot Body °K⁴ - Ambient or Wall °K⁴) | |
| /Sqin Surface = .10/o368 × (Emissivity) | × (Hot Body °K⁴ - Ambient or Wall °K⁴) | |
| Watt True | × 1.0005 | = Volt-Ampere International |
| Weber | × 1(5/o). | = Kiloline |
| | × .00333585 | = Magnetic Flux Unit |
| | × 1(8/o). | = Maxwell |
| Weber/Square Centimeter | × 1(8/o). | = Gauss |
| | × 1(8/o). | = Line/Sqcm |
| | × 645163000. | = Line/Square Inch |
| | × .00333585 | = Mag Flux Density Unit |
| | × 10000. | = Weber/Square Meter |
| Weber/Square Inch | × .6/o155 | = Gauss |
| | × .6/o155 | = Line/Square Inch |
| | × 1(8/o). | = Line/Square Inch |
| | × 155(5/o). | = Maxwell/Square Centimeter |
| | × 1(8/o). | = Maxwell/Square Inch |
| | × .155 | = Weber/Square Centimeter |
| | × 1550. | = Weber/Square Meter |
| Weber/Square Meter | × 10000. | = Gauss |
| | × 64520. | = Line/Square Inch |
| | × .0001 | = Weber/Square Centimeter |
| | × .0006452 | = Weber/Square Inch |
| Wedge Spherical: Sphere Area × Wedge Dihedral Angle = 360. | | × Lune Area |
| Sphere Volume × Wedge Dihedral Angle = 360. | | × Wedge Volume |
| Week | × 7. | = Day |
| | × 168. | = Hour |
| | × 10080. | = Minute |
| | × 604800. | = Second |
| Weight-Force | × Height | = Potential Energy |
| Weight-Ton: British and US | × 2240. | = Pound |
| Metric Countries | × 2204.6 | = Pound |
| Wichita Kansas Heating Load | = 4675. | = Degree-Day |
| Wineglassful | × 2. | = Fluid Ounce |
| Wheelbarrow: Feet Wheeled | × .6 | = Man-Hr/Cuyd(Dry Avg Soil) |
| | × .7 | = Man-Hr/Cuyd(Dry Clay) |
| | × .75 | = Man-Hr/Cuyd(Dry Hard Pan) |
| | × .6 | = Man-Hr/Cuyd(Dry Sand-Loam) |
| | × .75 | = Man-Hr/Cuyd(Wet Avg Soil) |
| | × .85 | = Man-Hr/Cuyd(Wet Clay) |
| | × .95 | = Man-Hr/Cuyd(Wet Hard Pan) |
| | × .65 | = Man-Hr/Cuyd(Wet Sand-Loam) |
| Wheelbarrow: Standard Capacity | = 4.0 | = Cubic Feet |
| Wire: Area Square Centimeter × Ohm | = cm Wire | × K in sqcm/cm |
| Wire: Diameter Mil | × Feet | = Mil-Foot |
| Diameter Mil Squared × Ohm | = Feet Wire | × (k-mil-foot) |
| Wire: Mil-Foot | × 9.6 | = Ohm (Commercial Copper) |
| | × 58.3 | = Ohm (Pure Iron) |
| | × 90.0 | = Ohm (Telegraph Iron) |
| Wiring: Draw Wire thru Conduit: Day | × 2000. | = Feet Circuit (Man + Helper) |
| Housework: Knob & Tube: Day | × 10. | = Outlets (Man + Helper) |
| Install Conduit: Hours | × (3/d") + 6 | = Feet Conduit (Man + Helper) |
| Other Work: Day | × 500. | = Feet Circuit (Man + Helper) |
| Wood: Dry Average: Pound | × 8500. | = Btu(Heat Valve) |
| Linear Expansion | = 3.0 to 5.5 | = Parts/Million/°F |

# W — CONVERSION FACTORS

| | | |
|---|---|---|
| Wood: Pine: Specific Heat | = .67 | = Btu/Pound/°F |
| Pound | × 7870. | = Btu(Common Fuel Value) |
| Work: Centimeter | × Dyne | = Erg |
| Distance | × Weight | = Work |
| Feet | × Pound | = Foot-Pound |
| Units | = 1. | = Foot-Pound or gram-cm |
| | = 1. | = Gram-Meter or Kg-m |

## X

| | | |
|---|---|---|
| Xenon: (Xe): #54:13 AW: | | |
| Xylene Gas: 60F-30"Hg: | = 3.664 | = Specific Gravity Air=1 |
| Cubic Foot | × 5146. | = Btu Gross Combustion Heat |
| | × 50.2 | = Cuft Air for Combustion |
| | × .2805 | = Pound |
| Cuft Mixed Air-Gas | × 100.48 | = Btu Gross Combustion Heat |
| Pound | × 18340. | = Btu Gross Combustion Heat |
| | × 3.56 | = Cubic Foot |
| | × 13.708 | = Pound Air for Combustion |
| Flame Temperature | = 3740. | = Fahrenheit Degree Maximum |

## Y

| | | |
|---|---|---|
| Yard British | × .9999971 | = Yard US |
| Yard (Construction Parlance) | × 1. | = Cubic Yard (Dirt-Rock etc) |
| Yard US | × 91.4402 | = Centimeter |
| | × .04545 | = Chain Gunter |
| | × 3. | = Feet |
| | × 36. | = Inch |
| | × .0009144018 | = Kilometer |
| | × 4.54545 | = Link |
| | × .9144018 | = Meter |
| | × 3600/3937 | = Meter (Act Congress 1886) |
| | × 914402. | = Micron |
| | × .0004934 | = Mile Nautical US |
| | × .0005682 | = Mile Statute US |
| | × 914.402 | = Millimeter |
| | × 9144(5/o). | = Millimicron |
| | × 4. | = Quarter (Cloth) |
| | × .1818 | = Rod |
| | × 1.0000029 | = Yard British |
| Year | × .01 | = Century |
| | × 8765. | = Hours |
| | × 365.24734 | = Mean Solar Day |
| | × 525948. | = Minute |
| | × 31556925. | = Second |
| | × 366.008515 | = Sidereal Day |
| Year/Kilo-Ounce Troy | × 11.74281 | = Day/Kilogram |
| | × .365224 | = Day/Ounce Troy |
| | × .28183 | = Hour/Gram |
| | × 8.76581 | = Hour/Ounce Troy |
| | × 1.01458 | = Second/Milligram |
| | × 32.15072 | = Year/Ton Metric |
| Year/Ton Metric | × .36524 | = Day/Kilogram |
| | × .011360 | = Day/Ounce Troy |
| | × .16567 | = Day/Pound Avoir |
| | × .0087658 | = Hour/Gram |
| | × .24851 | = Hour/Ounce Avoir |
| | × .27265 | = Hour/Ounce Troy |
| | × 3.97611 | = Hour/Pound Avoir |
| | × .031557 | = Second/Milligram |
| | × .031104 | = Year/Kilo-Ounce Troy |
| | × .90719 | = Year/Ton Short Avoir |
| Year/Ton Short Avoir | × .40261 | = Day/Kilogram |
| | × .18262 | = Day/Pound Avoir |
| | × .0096626 | = Hour/Gram |
| | × .27393 | = Hour/Ounce Avoir |
| | × 4.38291 | = Hour/Pound Avoir |
| | × .034786 | = Second/Milligram |
| | × 1.10231 | = Year/Ton Metric |

| | | |
|---|---|---|
| Youngs Modulus: Casing-Pipe: Length in Feet | × 3.4 | = psi Stress (Hanging Free) |
| Tubing-Wire; Length in Feet | × 3.4 | = psi Stress (Hanging Free) |
| Ytterbium: (Yb): #70:173.04 AW: | | |
| Yttrium: (Y): #39.88.92 AW: | | |
| Zero Temperature | = -273.16 | = Centigrade Degree |
| | = 0.0 | = Centigrade Degree Absolute |
| | = -459.69 | = Fahrenheit Degree |
| | = 0.0 | = Fahrenheit Degree Absolute |
| | = 0.0 | = Kelvin Degree |
| | = 0.0 | = Rankine Degree |
| Zinc | + Copper Sulfate | = Zinc Sulfate + Copper |
| Zinc: (Zn): #30:65.38 AW: .10 SpHt: Val, +2: | | |
| Cubic Foot | × 443. | = Pound 68F |
| Linear Expansion: Inch | × 14.0 | = Micro-Inch/°F |
| Zirconium: (Zr): #40:91.22 AW: | | |
| Zollpfund | × 500. | = Gram |
| Zone: Sphere: Radius × Height | × 6.28318 | = Convex Surface Area |