

Conversion
Factors
Handbook

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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

CONVERSION FACTORS

A

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
Abmhc/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 _____	× .5/01	= Volt/Meter
	× .10/0254	= Volt/Mil
Acceleration _____	× Mass	= Force
Acetate: C ₂ H ₃ O 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)

CONVERSION FACTORS

A

<p>Air: 32F: 14.69 69psi: Specific Volume _____ = 12.387 Thermal Conductivity _____ = .163 Thermal Conductivity _____ = .0136</p> <p>Air: 60F: Cubic Foot _____ × .07651 Pound _____ × 13.095</p> <p>62F: Cubic Foot _____ × .0761 Pound _____ × 13.141</p> <p>70F: Cubic Foot _____ × .01799 _____ = .075</p> <p>Density Lb/cuft × Ft Head of Air × cfm _____ × .00030303 Dry: Pound Weight × Rankine Degree _____ × .37 Expansion: Degree Centigrade _____ × .003671 _____ × .003665 Degree Fahrenheit _____ × .002034</p> <p>Flow Resistance: 1"-4" Ell or Tee _____ = 3.7d"-1.7 5"-8" Ell or Tee _____ = 4d" 1"-3" Valve _____ = 5.5d"-3.5 4"-8" Valve _____ = 8.25d"-13.</p> <p>Horsepower (Fan) _____ × 33000. Static × 6356. _____ = cfm Total × 6356. _____ = cfm</p> <p>Pressure On Flat Surface: Feet/Second _____ × .00125 Suction @ Hood Face: Electroplate Vapor _____ = 1500. Granite Dust _____ = 1500. Paint Spray _____ = 200.</p> <p>Throttled: Temperature Drop _____ Viscosity: _____ = 1812(5/0).</p> <p>Air-Conditioner: Blower: Ambient Temp °F _____ + 20. House Light Heat: Watt _____ × 3.41 Occupant Heat: Persons _____ × 400. Persons _____ × .25 to .4 Square _____ × .25 to .4 3/4 Ton Unit _____ = 1600 Water Tower _____ = 2 to 3 _____ = 95°F</p> <p>Airlift: Cubic Feet of Oil Raised _____ × 13. Gallons of Oil Raised _____ × 1.25 Seconds _____ × 35.</p> <p>Alcohol: Cubic Foot _____ × 50. Ethyl: Boiling Point _____ = 78.32 Cubic Centimeter _____ × .789 Latent Heat Fusion _____ = 24.89 Pound _____ × 12835. Specific Heat _____ = .548 Specific Heat 68F _____ = 1.02 Viscosity 20C _____ = .012</p> <p>Gallon: _____ × 6.7 Methyl: Pound _____ × 9063. Specific Heat 73.4F _____ = 1.0</p> <p>Aluminum: (A1): #13: 26.97 AW: 2.64 Spg: Val. +3 Cubic Centimeter _____ × 2.70 Cubic Foot _____ × 165. Heat Conductivity _____ = 117. Linear Expansion: Inch _____ × 12.3 Specific Heat _____ = .212 Specific Thermal Capacity _____ = 40. Thermal Conductivity _____ = 5.3</p> <p>Amarillo Heating Load _____ = 4655.</p> <p>Ammonia Gas: (60F-30"Hg): Cubic Feet _____ × .04566 Pound _____ × 21.90 Specific Gravity _____ = .5963</p> <p>Ammonium: NH₄: _____ = +1</p> <p>Ampere (I) _____ × 1 _____ × 1.0 _____ × 1.000165 _____ × 1.</p>	<p>= Cuft/Pound = Btu-Inch/SqFt-Hour-°F = Btu-Foot/SqFt-Hour-°F = Pound = Cubic Feet = Pound = Cubic Feet = Btu (Can Absorb) = Pound (Standard Density) = Air Horsepower (Fan) = Cuft Volume × psia = psi CP = psi Cv (0-100C) = psi Cv (0-100C) = Equiv Ft Straight Pipe = Equiv Ft Straight Pipe = Equiv Ft Straight Pipe = Equiv Ft Straight Pipe = Lb Air/Min × Ft Head of Air × Inch Water Gage (Static Press) × Inch Water Gage (Total Press) = Pound/Square Foot Area = Lineal fpm (Flow Rate) = Lineal fpm (Flow Rate) = Lineal fpm (Flow Rate) = .03F Degree/psi Drop = Poise 59F = °F Air (Discharge Side) = Btu/Hour = Btu/Hour = Ton Refrig Needed = Ton Refrigeration = Watt (Average Use) = Gallon/Minute Water = Max Discharge Temp = Cuft Air (Efficient Volume) = Cuft Air (Practical Volume) = Cuft Air (Maximum Rate) = Pound = Degree Centigrade (76cm) = Gram (Density 68F) = Gram-Calorie/Gram = Btu (Heat Value) = Btu/Pound/°F = Gram-Calorie/Gram-°C = Poise = Pound = Btu (Heat Value) = Gram-Calorie/Gram-°C</p> <p>= Gram 59F = Pound 68F = Btu/(hr)(SqFt)(°F/Ft) = Micro-Inch/Degree F = Btu/Pound/°F = Watt-Second/Culn/°C = Watt/°C/Inch = Degree-Day = Pound = Cubic Feet Air = 1 = Valence = Abampere = Ampere Absolute = Ampere International = Coulomb/Second</p>
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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

CONVERSION FACTORS

A

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/ø1	= Centimeter
	× .8/ø3937	= Inch
	× .003937	= Micro-Inch
	× .0001	= Micron
	× .6/ø1	= 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/ø3183	= 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/ø4848	= 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 (Kg/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

CONVERSION FACTORS

B

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

B CONVERSION FACTORS

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)

CONVERSION FACTORS

A

Brick:Facework:RO-Strike Smooth:Bricks _____	x .0142		
V Joint _____	:Bricks _____ x .0136		= Mason-Hr(RunBond-CemMort)
Hoisting _____	:Bricks _____ x .00015		= Mason-Hr(RunBond-LimeMort)
Horse Scaffold _____	:Linear Feet _____ x .085		= Elevator-Hour/Story
Lay Common: Bricks _____	_____ x .0051		= Laborer-Hour(Erecting)
(41/Wall-Inches) +4 _____	x Bricks/1000		= Laborer-Hour
(30/Wall-Inches) +4 _____	x Bricks/1000		= Mason-Hr(Cement Mortar)
Pole Scaffold _____	:Linear Feet _____ x .140		= Mason-Hr(Lime Mortar)
Pressed _____	:Bricks _____ x 69.8		= Laborer-Hour(Erecting)
Sqft Wall _____	x 7.		= Cuin (8x3.875x2.25)
Specific Heat _____	= .22		= Bricks
Standard _____	:Bricks _____ x 67.5		= Btu/Pound/°F
Sqft Wall _____	x 4.1		= Cuin (8x3.75x2.25)
12" Wall _____	:Full Point In Inch _____ x .00114		= Pound
_____	x 1.14		= Bricks
Wall:Cubic Feet _____	_____ x 18.		= Cuyd Mortar/Brick
Wash Down _____	:Square Feet _____ x .01		= Cuyd Mortar/M-Brick
_____	x .005		= Bricks
Brinell Hardness Number on Steel _____	x 500.		= Mason-Hour
Bromine(Bromide):(Br):#35:79.916 AW: Val. -1:			= Laborer-Hour
Bronze: 68F: Cubic Foot _____	x 546.		= psi(Tensile Strength)
Linear Expansion: Inch _____	_____ x 9.8		
Specific Heat _____	= .12		= Pound
Btu _____	x 1.0		= Micro-Inch/Degree F
_____	x 251.996		= Btu/Pound/°F
_____	x 252.161		= British Thermal Unit
_____	x .001818		= Calorie IT
_____	x .3/o8884		= Calorie Thermochemical
_____	x 105487(5/o).		= Cuft Manufactured Gas
_____	x 778.26		= Cuft Natural Gas
_____	x 25040.		= Erg
_____	x 251.99579		= Foot-Pound-Force
_____	x 10756600.		= Foot-Poundal
_____	x .0003984		= Gram-Calorie
_____	x .000392943		= Gram-Centimeter
_____	x 9339.12		= Horsepower-Hour Metric
_____	x 1055.40		= Horsepower-Hour US
_____	x 1054.886		= Inch-Pound-Force
_____	x .001		= Joule Absolute
_____	x .25199579		= Joule International
_____	x .000293018		= Kilo Btu/(kB)
_____	x 107.566		= Kilogram-Calorie
_____	x 10.41		= Kilowatt-Hour
_____	x 251.93		= Kilogram-Meter
_____	x 2.5193		= Liter-Atmosphere
_____	x .0002988		= Mean Calorie
_____	x .4/o7644		= Ostwald Calorie
_____	x .55555		= Poncelet-Hour
_____	x .55555		= Pound Anthracite
_____	x .3/o1598		= Pound-Calorie
_____	x .4/o5234		= Pound-Chu
_____	x .00103092		= Pound Dry Wood
_____	x .4/o1		= Pound Fuel Oil
_____	x .293018		= Pound Water Evap @ 212F
_____	x 1054.866		= Therm
Btu (39.2F) _____	x 1060.4		= Watt-Hour International
(60F) _____	x 1054.6		= Watt-Second
(Mean) _____	x 779.		= Joule
(Mean) _____	x 1054.87		= Joule
Btu/Cubic Foot _____	x 8.8987		= Foot-Pound
_____	x .0039		= Joule
Btu/Day/Square Foot _____	x .04167		= Kilogram-Calorie/Cubic Meter
_____	x .01130		= Kilogram-Calorie/Liter
_____	x .5/o3139		= Btu/Hr/Square Foot
_____	x .4/o1314		= Gram-Calorie/Hr/Sqcm
			= Gram-Calorie/Sec/Sqcm
			= Watt/Sqcm

Btu/Day/Square Foot/°F _____	× .04167	= Btu/Hr/SqFt/°F
	× .02034	= Gram-Calorie/Hr/Sqcm/°C
	× .5/05651	= Gram-Calorie/Sec/Sqcm/°C
	× .4/02366	= 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
	× .4/01435	= Gram-Calorie/Sec/Sqcm/cm/°C
	× .4/06009	= 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
	× .4/07535	= 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
	× .6/03447	= Kilocalorie/Sec/Sqcm/cm/°C
	× .001441	= Watt/Sqcm/cm/°C
Btu/Minute _____	× 1785(5/0).	= 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

CONVERSION FACTORS

B

<p>Bushel Imperial _____</p>	<p>× 36.3683904 × 1.28431 × 2219.28768 × .0363683904 × 8. × 36.368</p>	<p>= Cubic Decimeter = Cubic Feet = Cubic Inch = Cubic Meter = Gallon Dry Imperial = Liter</p>
<p>Bushel US _____</p>	<p>× .968972 × .0277 × 35.2383 × 1.24446 × 2150.42688 × .035238 × .04609 × 3.52383 × 7.75178 × 8. × 9.30920 × .352383 × 35.2383 × 1192. × 4. × 64. × 56. × 32. × 60. × 60. × 32. × 37.2368 = 8" × 18.5" × 1.0 × 1.0</p>	<p>= Bushel Imperial = Chaldron = Cubic Decimeter = Cubic Feet = Cubic Inch = Cubic Meter = Cubic Yard = Decaliter = Gallon Dry Imperial = Gallon Dry US = Gallon Liquid US = Hectoliter = Liter = Ounce Fluid US Apoth = Peck US = Pint Dry US = Pound Avoir: Corn = Pound Avoir: Oat = Pound Avoir: Potatoe = Pound Avoir: Wheat = Quart Dry US = Quart Liquid US = Standard Cylinder Size = US Standard Struck Bushel = Winchester Struck Bushel</p>
<p>Butane Gas (60F-30" Hg) _____ Cubic Feet _____ Cuft Mixed Air-Gas _____ Flame Temperature _____ Pound _____</p>	<p>= 2.067 × 3267. × 32.2 × .1583 × 101.32 = 3735. × 21293. × 6.32 × 15.500</p>	<p>= Specific Gravity (Air = 1) = Btu Gross Combustion Heat = Cuft Air for Combustion = Pound = Btu Gross Combustion Heat = Degree F Maximum = Btu Gross Combustion Heat = Cubic Feet = Pound Air For Combustion</p>
<p>Butt _____</p>	<p>× 4. × 126. × 4032. × 2. × 1008. × 1. × 504.</p>	<p>= Barrel (31.5) = Gallon Liquid US = Gill = Hogshead = Pint = Pipe = Quart</p>
<p>Butte Montana Heating Load _____ Butylene Gas (60F-30" Hg) _____ Cuft Feet _____ Cuft Mixed Air-Gas _____ Flame Temperature _____ Pound _____</p>	<p>= 8260. = 1.936 × 3066. × 29.6 × .152 × 107.27 = 3775. × 20833. × 6.74 × 14.820</p>	<p>= Degree-Day = Specific Gravity (Air = 1) = Btu Gross Combustion Heat = Cuft Air for Combustion = Pound = Btu Gross Combustion Heat = Degree F Maximum = Btu Gross Combustion Heat = Cubic Feet = Pound Air for Combustion</p>
<p>Cable British _____ Cable Length US _____</p>	<p>× 608. × .1 × 120. × 720. × 219.457 × 960. × 240.</p>	<p>= Feet British = Mile British Nautical = Fathom US Navy = Feet US Navy = Meter = Span = Yard</p>
<p>Cadmium: (Cd): #48:112.41 AW: Val. +2:</p>		

C

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

CONVERSION FACTORS

C

Candle German _____	× 1.17	
	× .105	= Hefner
International _____	× 1.00	= 10-cp Pentanes
	× .96	= Bougie Decimales
	× .95	= Candle English
	× .104	= Candle German
	× 1.11	= Carcel
	× .10	= Hefner
Lighted _____	= .1	= 10-cp Pentanes
Standard _____	× 1.0	= Lumen/Watt
	× 1.0	= Candle
Candle/Square Centimeter _____	× 1.0	= Candlepower
	× 929.	= Brightness Unit
	× 6.4516	= Candle/Sq Foot
	× 2919.	= Candle/Square Inch
	× 3.1416	= Foot-Lambert
	× 3141.6	= Lambert
	× 1.0	= Millilambert
Candle/Square Foot _____	× 3.1416	= Stilb
Candle/Square Inch _____	× .1550	= Foot-Lambert
	× 144.	= Candle/Square Centimeter
	× 1550.	= Candle/Square Ft
	× 452.39	= Candle/Sq Meter
	× .48695	= Foot-Lambert
	× .1550	= Lambert
	× 486.9	= Lumen/Sqcm/Steradian
Candle/Square Meter _____	× .0001	= Millilambert
	× .0929	= Candle/Sq Centimeter
	× .3/0645	= Candle/Sq Foot
Candlepower (cp) _____	× 1.0	= Candle/Sq Inch
	× 1.0	= Candlepower Spherical
	× 12.56637	= Candle International
	× 1.0	= Lumen
Candlepower: Mean Spherical _____	× 1.0	= Luminous Intensity Unit
	× 12.56637	= Candlepower
	× 1.0	= Lumen
Can Size: 8 oz. _____	= 8 oz Weight _____	= 8 oz Weight _____ = 1.0
No. 1 _____	= 11 oz. Weight _____	= 1.333
No. 1-1/2 _____	= 16 oz. Weight _____	= 2.0
No. 2 _____	= 20 oz. Weight _____	= 2.5
No. 2-1/2 _____	= 28 oz. Weight _____	= 3.5
No. 3 _____	= 33 oz. Weight _____	= 4.0
Cantar (Egypt) _____	× 99.045	= Cupful
Cape-Foot _____	× 1.033	= Cupful (See Cup)
Carat: Gold Fineness Measure _____	× .041666	= Cupful
Carat: International _____	× 3.08647127	= Cupful
	× .2	= Cupful
	× 200.	= Pound
	× .007042	= Feet British
	× 4.	= Parts Gold
	× .3/0441	= Grain
	= -4	= Gram
Carbide: C: _____		= Milligram
Carbon: (C): #6:12.010 AW: .16 Sp Ht: Val. +4:		= Ounce
Solid: Cubic Foot _____	× 145.	= Pearl Grain
Pound _____	× .0069	= Pound
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
Pound _____	× 2.4	= Cuft Air for Combustion
Cuft Mixed Air-Gas _____	× .07405	= Pound (Spg. 9671 Air = 1)
Flame Temperature _____	= 3850.	= Btu Gross Combustion Heat
		= Degree F Maximum

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 × 1000 Foot _____	× .971428	= Barrel (42)
Diameter Squared Inch × Inch High _____	× .4/08095195	= 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 _____	= Sack Cement
	× .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)

CONVERSION FACTORS

C

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

CONVERSION FACTORS

C

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 Circumference

C 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/°488833	= 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/°).	= 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/°1	= Circular Inch
	× .00064516	= Circular Millimeter
	× Foot	= Mil-Foot
	× .5/°50671	= Square Centimeter
	× .6/°7854	= 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

CONVERSION FACTORS

C

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)

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 (cdf) _____	× .125	= Cord
	× 16.	= Cubic Feet
	× .45306	= Cubic Meter
	= 4×4×1	= Pile Size in Feet
	× .4	= Bushel US Struck
Corn: Shelled: Crib Volume in Cubic Feet	× .4	
Corrosion: Electrolytic: Carries Away 20 Pound Iron/Ampere/Year of Current Flow.	× 99900.	= Lb Breaking Wgt × Long(All Inch)
Corrugated Sheet: Depth×Thickness×Width	× .1	= Abcoulomb
Coulomb (Q) _____	× .0002777	= 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

CONVERSION FACTORS

C

Coulomb/Square Centimeter _____	× 2998(6/o). × .01550 × .155 × 1550. × 4647(5/o).	= Statcoulomb/Sq Centimeter = Abcoulomb/Sq Centimeter = Coulomb/Sq Centimeter = Coulomb/Sq Meter = Statcoulomb/Sq Centimeter
Coulomb/Square Meter _____	× .4/o1 × .3/o1 × .3/o6452 × 299800.	= Abcoulomb/Square Centimeter = Coulomb/Square Centimeter = Coulomb/Square Inch = Statcoulomb/Square Centimeter
Count: _____	× 840. × 1.0	= Yard/Pound (Cotton) = Kilogram
Continental/1000 Meter Skein Spun Silk	_____	
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

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
		× .4/0214334	= Cubic Yard
		× .003720	= Gallon Dry US
		× .003607	= Gallon Liquid British
		× .004329	= Gallon Liquid US
		× .01638673	= Liter
		× .55411	= Ounce Fluid US Apott.
		× .0346320	= Pint Liquid US
		× .01488	= Quart Dry US
		× .017316	= Quart Liquid US
Cubic Meter (cum)	_____	× 6.2897	= Barrel (42)
		× .2759	= Cord
		× 1(6/0).	= 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

CONVERSION FACTORS

C

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 _____	× .4/08095195	= Barrel (42)
	× .000454	= Cubic Foot

C

CONVERSION FACTORS

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	= Deca
	= 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 (dcl) _____	× .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

CONVERSION FACTORS

D

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)
Pits: Cubic Yard _____	× 1.2	= Man-Hr (Wet Loam or Sand)
	× 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 × .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

CONVERSION FACTORS

D

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

CONVERSION FACTORS

D

Dyne-Second/Square Meter _____	× .6/o1 × .4/o1 × .0006 × .036 × .5/o1019 × .0001 × .5/o2247 × .8/o145 × .6/o209 × .10/o242 × .8/o348 × .8/o2204 × .6/o56 × .5/o672 × .6/o1322 × .4/o336 × .3/o4032 × .6/o7837 × .002016 × .02419 × .8/o2204 × .6/o56 × .5/o672 × .6/o132 × .5/o336 × .3/o403 × .6/o78 × .002016 × .02419	= Kilogram-Mass/Centimeter-Second = Kilogram-Mass/Meter-Second = Kilogram-Mass/Meter-Minute = Kilogram-Mass/Meter-Hour = Kilogram-Force-Second/Sq Meter = Poise = Pound-Force-Second/Sq Meter = Pound-Force-Second/Sq Inch = Pound-Force-Second/Sq Foot = Pound-Force-Minute/Sq Inch = Pound-Force-Minute/Sq Foot = Pound-Mass/Centimeter-Second = Pound-Mass/Inch-Second = Pound-Mass/Foot-Second = Pound-Mass/Centimeter-Minute = Pound-Mass/Inch-Minute = Pound-Mass/Foot-Minute = Pound-Mass/Centimeter-Hour = Pound-Mass/Inch-Hour = Pound-Mass/Foot-Hour = Poundal-Second/Sq Centimeter = Poundal-Second/Sq Inch = Poundal-Second/Sq Foot = Poundal-Minute/Sq Centimeter = Poundal-Minute/Sq Inch = Poundal-Minute/Sq Foot = Poundal-Hour/Sq Centimeter = Poundal-Hour/Sq Inch = Poundal-Hour/Sq Foot = Atmosphere 76cm 32F = Bar = Barye = Centimeter Mercury 32F = Gram/Square Centimeter = Inch Mercury 32F = Inch Water 4C = Kilogram/Square Meter = Kilopascal = Newton = Ounce Avoir/Square Inch = Pound/Square Foot = Pound/Square Inch = Poundal/Square Inch = Ton Short/Square Foot
Dyne/Square Centimeter _____	× .6/o986923 × .5/o1 × 1.0 × .4/o7500615 × .001019716 × .4/o2953 × .0004015 × .01019716 × .0001 × .1 × .000232061 × .002089 × .4/o145038 × .000466642 × .5/o1044	
Dysprosium: (Dy):#66:162.46: AW: _____		
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 × .18/o16019 × .19/o160199 × .9/o480239 × .9/o480217	= Abcoulomb = Coulomb Absolute = EMU Absolute = ESU Absolute = Statcoulomb

E

E CONVERSION FACTORS

Electroplating: Aluminum: Amp × Second _____	× .4/0939	= 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 _____	× .4/01045	= Gram Deposited at Cathode
Nickel: Amp × Second _____	× .000304	= Gram Deposited at Cathode
Oxygen: Amp × Second _____	× .4/08291	= Gram Deposited at Cathode
Silver: Amp × Second _____	× .00118	= Gram Deposited at Cathode
Oz/Sqft/Mil Thickness _____	× 12.	= Spg of Metal
Electrostatic Unit _____	× .9/0333585	= Coulomb
	× 3(10/o).	= Electromagnetic Unit
Electron-Volt _____	= .11/01602	= Erg
Electron-Volt Absolute _____	× .5/0160199	= Erg
Absolute/Molecule _____	× 23060.5	= Cal Thermo/Mole
	× 96485.3	= Joule Abs/Mole
Electron-Volt International _____	× .5/0160252	= Erg
International/Molecule _____	× 96501.2	= Joule Int/Mole
	× 23068.1	= Calorie Thermo/Mole
Elevator: Lbs Unbalanced Load × fpm _____	× .4/06	= 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	= Electromagnetic Unit
	= 1.0	= EDR
Equivalent Direct Radiation _____		
Erbium: (Er)#68:167.2 AW:		
Erg _____	× .10/0947988	= Btu
	× 1.	= Dyne-Centimeter
	× 1.0	= Energy Unit cgs
	× .3/051632	= Foot-Grain
	× .7/0737557	= Foot-Pound
	× .5/0237303	= Foot-Poundal
	× .7/023888	= Gram-Calorie
	× .001019716	= Gram-Centimeter
	× .13/03722	= Horsepower US-Hour
	× .6/01	= Joule
	× .10/023888	= Kilogram-Calorie
	× .7/010197	= Kilogram-Meter
	× .13/02778	= Kilowatt-Hour
	× 671.	= Mass Unit
	× 624000.	= Mev
	× .10/02778	= Watt-Hour
	× .6/01	= Watt-Second
Erg Absorbed/Gram of Tissue or Water _____	× .0119	= Rep
Erg/Second _____	× .8/05692	= Btu/Minute

CONVERSION FACTORS

E

Erg/Second _____	× 1.0 × .5/o4426 × .7/o7376 × .9/o1360 × .9/o134102 × .8/o434 × .9/o1 × 1.0 × .6/o1	= Dyne-Centimeter/Second = Foot-Pound/Minute = Foot-Pound/Second = Horsepower Metric = Horsepower US = Kilogram-Calorie/Minute = Kilowatt = Power Unit = Watt = Electrostatic Unit = Statcoulomb
ESU (Charge) _____	× 1. × 1. × 1.0493 Cubic Feet _____ × 1771. × 16.9 × .08034 Cuft Mixed Air-Gas _____ × 98.77 Flame Temperature _____ = 3670. Pound _____ × 22304. × 12.45 × 16.131	= Electrostatic Unit = Statcoulomb = Specific Gravity (Air = 1) = Btu Gross Combustion Heat = Cuft Air for Combustion = Pound = Btu Gross Combustion Heat = Degree F. Maximum = Btu Gross Combustion Heat = Cubic Feet = Pound Air for Combustion = Specific Gravity (Air = 1) = Btu Gross Combustion Heat = Cuft Air for Combustion = Pound = Btu Gross Combustion Heat = Degree F. Maximum = Btu Gross Combustion Heat = Cubic Feet = Pound Air for Combustion
Ethane Gas (60F-30"Hg). _____	= 1.0493 Cubic Feet _____ × 1771. × 16.9 × .08034 Cuft Mixed Air-Gas _____ × 98.77 Flame Temperature _____ = 3670. Pound _____ × 22304. × 12.45 × 16.131	= Specific Gravity (Air = 1) = Btu Gross Combustion Heat = Cuft Air for Combustion = Pound = Btu Gross Combustion Heat = Degree F. Maximum = Btu Gross Combustion Heat = Cubic Feet = Pound Air for Combustion = Specific Gravity (Air = 1) = Btu Gross Combustion Heat = Cuft Air for Combustion = Pound = Btu Gross Combustion Heat = Degree F. Maximum = Btu Gross Combustion Heat = Cubic Feet = Pound Air for Combustion
Ethylene Gas (60F-30"Hg). _____	= .9684 Cubic Feet _____ × 1560. × 14.5 × .07464 Cuft Mixed Air-Gas _____ × 102.89 Flame Temperature _____ = 3885. Pound _____ × 21625. × 13.4 × 14.820	= Specific Gravity (Air = 1) = Btu Gross Combustion Heat = Cuft Air for Combustion = Pound = Btu Gross Combustion Heat = Degree F. Maximum = Btu Gross Combustion Heat = Cubic Feet = Pound Air for Combustion = Specific Gravity (Air = 1) = Btu Gross Combustion Heat = Cuft Air for Combustion = Pound = Btu Gross Combustion Heat = Degree F. Maximum = Btu Gross Combustion Heat = Cubic Feet = Pound Air for Combustion
Europium: (Eu): #63:152.0 AW:		
Evaporation Unit: Pound Water 212F _____	× 970.4 × 1.8 Cubical _____ × .333 Linear _____ × 3.0	= Btu = Expansion Coeff/°C = Linear Expansion = Cubical Expansion
Expansion Coefficient/°F _____		
Cubical _____		
Linear _____		
Exponents: Rule 1: (XYZ) ⁿ = X ⁿ Y ⁿ Z ⁿ (2×3×4) ² = 2 ² 3 ² 4 ² = 4×9×16 = 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 ^m X ⁿ = X ^{m+n} 2 ³ 2 ² = 2 ³⁺² = 2 ⁵ = 32 5: (X ^m) ⁿ = X ^{mn} (2 ³) ² = 2 ^{3×2} = 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 8: X ^{1/n} = ⁿ √X 4 ^{-3/2} = 1/4 ^{3/2} = 1/√4 ³ = 1/8 = .125 9 ^{3/2} = 9 ^{1+1/2} = 9 × 9 ^{1/2} = 9√9 9×3 = 27	
Fahrenheit Degree _____	- 65. + 459.69 + 459.69 Minus 32 _____ × .555 Minus 32 × .555 _____ + 273.16	= Degree Day = Degree Fahrenheit Absolute = Rankine Degree = Centigrade Degree = Kelvin Degree = Btu × Foot = Btu = Thermal Ohm/Sq Centimeter
Fahrenheit Degree × Lb-Force × SpHt Btu/Lb-°F.	× Sec. Squared × Pound Mass × 1761.	= Btu × Foot = Btu = Thermal Ohm/Sq Centimeter
Fahrenheit Degree/Btu/Hour/Square Foot _____	× 3. × 6. × 5.8445 × 1.7814	= Alnar = Fot = Foot US = Meter
Famm _____		
Fan: Built-in Ventilating: _____	= 100. Cuft/Min × Inch Water Pressure _____ × .0001578 Efficiency Range _____ = 50 to 80 Farad (C) _____ × .8/o1 × 1. × Volt × .8/o1 × 898776(6/o). × 1.0	= Watt Avg Use = HP (100% Efficiency) = Percent Efficiency = Abfarad = Capacitance Unit = Coulomb = Electromagnetic Unit = Electrostatic Units = Farad Absolute

F

F 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:		

CONVERSION FACTORS

F

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
	× .6/051206	= Horsepower-Hour Metric
	× .6/050505	= 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
	× .6/0376617	= Kilowatt-Hour
	× .001356	= Kilowatt-Second
	× .000713986	= Lb-Chu
	× .01338	= Liter-Atmosphere
	× 908(7/0).	= Mass Unit
	× 848(10/0).	= Mev
	× .6/03840	= Poncelet-Hour
	× .000713986	= Pound-Chu
	× .000376617	= Watt-Hour
	× 1.356	= Watt-Second
Foot-Pound × Number Power Cycles _____	× .4/0303	= Horsepower US
Foot-Poundal _____	× .4/0399484	= Btu
	× 421402.	= Dyne-Centimeter
	× 421402.	= Erg
	× .031081	= Foot-Pound
	× .0100669	= Gram-Calorie
	× 429.711	= Gram-Centimeter
	× .7/0156975	= Horsepower-Hour US
	× .0421402	= Joule
	× .7/0117056	= Kilowatt-Hour
Foot-Pound/Hour _____	× .001284	= Btu/Hour
	× .4/02141	= Btu/Minute
	× .6/0357	= 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

CONVERSION FACTORS

F

<p>Forms: Reinf Concrete: Drop Panel _____ = .06 Head or Stair _____ = .06 Slab _____ = .03 Slab or Beam _____ = .08 Stair or Head _____ = .115 Wall _____ = .05 Wall or Column _____ = .085 Stripping Plain Concrete: _____ = .03 Stripping Reinforced Concrete: _____ = .035 Fot _____ × .97408 _____ × 100. _____ × .2969 _____ × 10. Four-Gram _____ = 10000. Foute _____ × 1.0 Freezer: Home: _____ = 350 Freezing Point _____ = 0.0 _____ = 32.0 _____ = 0.0 French Degree: Gallon US _____ × .583 _____ × 1. Friction Coefficient: Static _____ = .27 _____ = .61 _____ = .51 _____ = .95 _____ = .5 _____ = .75 _____ = .27 _____ = .11 Static 5 mph _____ = .58 Static 30 mph _____ = .42 Sliding _____ = .52 _____ = .56 _____ = .48 _____ = .47 _____ = .44 _____ = .95 _____ = .3 _____ = .42 _____ = .084 _____ = .36 to .52 Fuel Oil #2 or #3: Gallon _____ × 130000. Pound _____ × 18630. Funt _____ × 9216. _____ × 409.512 _____ × 32. _____ × .9028 _____ × 96. Furlong _____ × 6.6 _____ × 10. _____ × 660. _____ × 201.168 _____ × .125 _____ × 40. _____ × 220. Fuss _____ × .9842 _____ × .300</p>	<p>_____ = Helper-Hour/Sqft _____ = Helper-Hour/Sqft _____ = Helper-Hour/Sqft _____ = Carpenter-Hour/Sqft _____ = Carpenter-Hour/Sqft _____ = Helper-Hour/Sqft _____ = Carpenter-Hour/Sqft _____ = Laborer-Hour/Sqft _____ = Laborer-Hour/Sqft _____ = Foot US _____ = Lines _____ = Meter _____ = Turn _____ = Gram _____ = Foot US _____ = Watt Avg Use _____ = Degree Centigrade _____ = Degree Fahrenheit _____ = Degree Reamur _____ = Grain Calcium Carbonate _____ = Parts Cal. Carb/100000 _____ = Leather Belt/Oak Drum-Dry _____ = Steel/Aluminum-Dry _____ = Steel/Brass-Dry _____ = Steel/Lead-Dry _____ = Steel/Lead-Greasy _____ = Steel/Steel-Dry _____ = Steel/Steel-Oxide Film _____ = Steel/Steel-Greasy _____ = Tire/Pavement-Wet _____ = Tire/Pavement-Wet _____ = Leather/Oak-Dry _____ = Leather/Steel-Dry _____ = Oak/Oak-Dry _____ = Steel/Aluminum-Dry _____ = Steel/Brass-Dry _____ = Steel/Lead-Dry _____ = Steel/Lead-Greasy _____ = Steel/Steel-Dry _____ = Steel/Steel-Greasy _____ = Tire/Pavement-Wet _____ = Btu (Average) _____ = Btu (Heat Value) _____ = Doli _____ = Gram _____ = Loth _____ = Pound Avoir US _____ = Solotnik _____ = Chain Engineer _____ = Chain Gunter _____ = Feet _____ = Meter _____ = Mile Statute US _____ = Perch-Pole-Rod _____ = Yard _____ = Foot US _____ = Meter</p>
<p>Gadolinium: (Gd): #64:156.9 AW: Gage Pressure _____ + Atmos Press Inch Mercury _____ × 70.7256 _____ × .49115 _____ × .491 _____ + 2116.3536 _____ × .491 _____ + 14.6969 (Vacuum) Pressure _____ - Atmos Press</p>	<p>_____ = Absolute Pressure _____ = Pound/Sq Foot _____ = Pound/Sq Inch _____ = Pound/Sq Foot Absolute _____ = Pound/Sq Inch Absolute _____ = Absolute Pressure</p>
<p>Gallium: (Ga): #31:69.72 AW:</p>	

G

G 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) _____		× .5/030688832	= 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 _____	× .5/015472286	= Cubic Feet/Second	
	Gallon Liquid US/Hour _____	× .1337	= Cubic Feet/Hour
		× .002228	= Cubic Feet/Minute
		× .4/0371	= 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	

CONVERSION FACTORS

G

Gallon Liquid US/Minute (gpm) _____	× 192.499992 × 8.02 × .13368055 × .002228 × 1440. × 60. × .01666 × .002228 × 5.355648 × 5.998392 × 24.51 × .4085 × Sq Root of _____ × Ft Head _____	= Cubic Feet/Day = Cubic Feet/Hour = Cubic Feet/Minute = Cubic Feet/Second = Gallon/Day = Gallon/Hour = Gallon/Second = Second-Foot = Ton Long Water 62F/Day = Ton Short Water 62F/Day = Diam. Inch Squared × Ft/Min (Pipe-Water) = Diam. Inch Squared × Ft/Sec (Pipe-Water) = Inch Pipe Diam. = HP US (100% Pump Eff) = HP US (85% Pump Eff) = HP US (65% Pump Eff) = HP US (50% Pump Eff)
Gallon Liquid US/Second (gps) _____	× 481. × 8.02 × .1337 × 60.	= Cubic Feet/Hour = Cubic Feet/Minute = Cubic Feet/Second = Gallon US/Minute
Gallon Million/Day _____	× 133680.55 × 92.88 × 1.548 × 694.44 × 11.57	= Cubic Foot/Day = Cubic Foot/Minute = Cubic Foot/Second = Gallon/US/Minute = Gallon US/Second
Gallon/Minute × Head in Feet _____	× .0003885	= Horsepower US
Gallon/Minute/Day _____	× .0042	= Acre-Foot
Gamma _____	× 1.0 × .001	= Microgram = Milligram
Garbage Disposer (Home): _____	= 600	= Watt (Avg Use)
Gas: Compressed: #/Hr × BTU/# Enthalpy Change	× .0004625	= HP Input (85% Eff)
Gas: Constant: (R) _____	= 1.9872 = 82.06 = 10.7 = 2780. = 1545. = 1.99 = 1545. = 847.2 = 1.315	= Calorie/°K = co-Atmos/gm-mole-°K = cuft-Lb/sq in/Lb-Mole-°R = Ft-Lb-Force/Lb-Mole-°K = Ft-Lb-Force/Lb-Mole-°R = gm-calorie/gm-mole-°K = Foot-Pound/°R (Mole) = Kilogram-Meter = Molecular Wgt × Press. In Atmos
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 = WTpv/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. × .042	= Btu (Average) = 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. × 6.05	= Btu (Heat Value)—Avg. = Pound (Avg.)
Pound _____	× 20379. × 136.	= Btu (Heat Value)—Avg. = Btu (Heat of Vaporization) Avg.
Gauss _____	× 1.0	= Electromagnetic Unit

Gauss _____	× .9/033	= 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
	× .10/0333585	= Magnetic Flux Density Unit
	× .10/0333585	= Statweber
	× .7/01	= Volt-Second/Square Centimeter
	× .7/01	= Weber/Square Centimeter
	× .7/0645163	= 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.

CONVERSION FACTORS

G

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
	× .4/064798918	= Kilogram
	× 64.798918	= Milligram
	× .00228571	= Ounce Avoir
	× .00208333	= Ounce Apoth-Troy
	× .041667	= Pennyweight
	× .0001428571	= Pound Avoir
	× .0001736	= Pound Apoth-Troy
	× .05	= Scruple
	× .7/07143	= Ton Short
	× .7/06378	= Ton Long
	× .7/06480	= Ton Metric
Grain Calcium Carbonate/US Gallon _____	× 1.20	= Clark Degree
	× 1.71	= French Degree
	× .958	= German Degree
Grain/Cubic Foot _____	× .4/0647989	= 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
	× .4/09807	= 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	
	× .0026792	= Pound Troy	
	× .07093	= Poundal	
	× .771618	= Scruple	
	× .6/0984	= Ton Long	
	× .5/01	= Ton Metric	
	× .5/01102	= 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	
× .5/0155932		= Horsepower-Hour	
× 4.18605		= Joule (Heat Equivalent)	
× .001		= Kilogram-Calorie	
× .426858		= Kilogram-Meter	
× .5/0116279		= Kilowatt-Hour	
× .001		= Large Calorie	
× .04129		= Liter-Atmosphere	
× 281(8/0).		= Mass Unit	
× .999658		= Mean Calorie	
× 262(11/0).		= 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
		× 1.8	= Btu/Pound/°C
Gram-Calorie/Gram/°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
Gram-Calorie/Hour/Sqcm/°C _____	× .001163	= Watt/Sqcm	
	× 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
× .00514	= Foot-Pound/Second		
× .4/0935595	= Horsepower US		
× .0000948	= Horsepower Metric		
× .4/0697674	= 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	

454 gm/lb

CONVERSION FACTORS

G

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

G 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	
Gram-Mass _____	× .008345	= Pound/Gallon	
	× 1.0	= Dyne/cm/Sec Squared	
Gram-Mass/Centimeter _____	× °C	= Gram-Calorie	
	× 980.665	= Dyne/Centimeter	
Gram-Mass/Centimeter-Hour _____	× 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	
	× .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	

CONVERSION FACTORS

G

<p>Gram-Mass/Centimeter-Minute _____</p>	<p>× 166. × .107 × 15.5 × .0166 × 60. × .4/0166 × .00166 × .1 × 6. × .00017 × .0166 × .000374 × .6/0242 × .4/0348 × .8/0404 × .6/058 × .6/0368 × .4/0933 × .00112 × .4/022 × .0056 × .067 × .3/013 × .336 × 4.04 × .6/0368 × .4/0933 × .00112 × .4/022 × .0056 × .067 × .3/013 × .336 × 4.04 × 100. × 1. × 10000. × 6.45 × 929.03 × 60. × 3600. × .001 × .1 × 6. × 360. × .010194 × 1. × .02247 × .4/0145 × .00209 × .6/0242 × .4/0348 × .4/02204 × .0056 × .0672043 × .001322 × .336 × 4.032 × .007837 × 20.16 × 241.93548 × .4/02204 × .0056 × .0672 × .00132 × .336</p>	<p>= Dyne-Second/Sq Meter = Dyne-Second/Sq Inch = Dyne-Second/Sq Foot = Gram-Mass/Centimeter-Second = Gram-Mass/Centimeter-Hour = Kilogram-Mass/Centimeter-Second = Kilogram-Mass/Meter-Second = Kilogram-Mass/Meter-Minute = Kilogram-Mass/Meter-Hour = Kilogram-Force-Second/Sq Meter = Poise = Pound-Force-Second/Sq Meter = Pound-Force-Second/Sq Inch = Pound-Force-Second/Sq Foot = Pound-Force-Minute/Sq Inch = Pound-Force-Minute/Sq Foot = Pound-Mass/Centimeter-Second = Pound-Mass/Inch-Second = Pound-Mass/Foot-Second = Pound-Mass/Centimeter-Minute = Pound-Mass/Inch-Minute = Pound-Mass/Foot-Minute = Pound-Mass/Centimeter-Hour = Pound-Mass/Inch-Hour = Pound-Mass/Foot-Hour = Pوندال-Second/Sq Centimeter = Pوندال-Second/Sq Inch = Pوندال-Second/Sq Foot = Pوندال-Minute/Sq Centimeter = Pوندال-Minute/Sq Inch = Pوندال-Minute/Sq Foot = Pوندال-Hour/Sq Centimeter = Pوندال-Hour/Sq Inch = Pوندال-Hour/Sq Foot = Centipoise = Dyne-Second/Sq Centimeter = Dyne-Second/Sq Meter = Dyne-Second/Sq Inch = Dyne-Second/Sq Foot = Gram-Mass/Centimeter-Minute = Gram-Mass/Centimeter-Hour = Kilogram-Mass/Centimeter-Second = Kilogram-Mass/Meter-Second = Kilogram-Mass/Meter-Minute = Kilogram-Mass/Meter-Hour = Kilogram-Force-Second/Sq Meter = Poise = Pound-Force-Second/Sq Meter = Pound-Force-Second/Sq Inch = Pound-Force-Second/Sq Foot = Pound-Force-Minute/Sq Inch = Pound-Force-Minute/Sq Foot = Pound-Mass/Centimeter-Second = Pound-Mass/Inch-Second = Pound-Mass/Foot-Second = Pound-Mass/Centimeter-Minute = Pound-Mass/Inch-Minute = Pound-Mass/Foot-Minute = Pound-Mass/Centimeter-Hour = Pound-Mass/Inch-Hour = Pound-Mass/Foot-Hour = Pوندال-Second/Sq Centimeter = Pوندال-Second/Sq Inch = Pوندال-Second/Sq Foot = Pوندال-Minute/Sq Centimeter = Pوندال-Minute/Sq Inch</p>
<p>Gram-Mass/Centimeter-Second _____</p>		

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	= Cbcm × 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	= Pوندal/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
	× .4/071	= 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-Inch/Degree F
Ton _____	× 11.7	= Cubic Feet
Gravel: Coarse: Cubic Foot _____	× .0435	= Ton

CONVERSION FACTORS

G

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:		
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/ø24	= Hour/Brick (Piled)
	× .024	= Hour/1000 Brick (Piled)
	× .4/ø15	= 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)

H

Hauling: 2-T Truck:	Dirt Road: Ton _____	$\times .105M + .065$	= Hour(Load-Haul-Dump)
	Gravel Road: Ton _____	$\times .08M + .05$	= Hour(Load-Haul-Dump)
	Macadam Road: Ton _____	$\times .08M + .04$	= Hour(Load-Haul-Dump)
	Plowed Ground: Ton _____	$\times .34M + .21$	= Hour(Load-Haul-Dump)
	Poor Dirt Road: Ton _____	$\times .12M + .08$	= Hour(Load-Haul-Dump)
5-T Truck:	Concrete Road: Ton _____	$\times .026M + .02$	= Hour(Load-Haul-Dump)
	Dirt Road: Ton _____	$\times .04M + .03$	= Hour(Load-Haul-Dump)
	Gravel Road: Ton _____	$\times .03M + .0225$	= Hour(Load-Haul-Dump)
	Macadam Road: Ton _____	$\times .03M + .02$	= Hour(Load-Haul-Dump)
	Plowed Ground: Ton _____	$\times .13M + .1$	= Hour(Load-Haul-Dump)
	Poor Dirt Road: Ton _____	$\times .048M + .036$	= Hour(Load-Haul-Dump)
Hay: Cubic Feet _____	$\times .001818$		= Ton Short
Rick: Feet "Over" Distance \times Length \times Width Ft \times .37			= Ton Short (Hay)
Small Bale _____	$\times 66.666$		= Pound (30 Bales/Ton)
Standard Bale _____	$\times 120.$		= Pound
Ton Short _____	$\times 550.$		= Cubic Feet
Head: Elevation psi _____	+ psi Press Hd		= Total Head psi
Feet Elevation _____	$\times .433$		= psi
Total at High Station _____	- Low Sta Hd		= Friction Drop
Head in Feet _____	$\times .43302$		= Pound/Square Inch
\times Gallon/Minute _____	$\times .0003885$		= 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 $\times 3.41$		= 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) _____	$\times 2.47104$		= Acre
	$\times 100.$		= Are
	$\times 107638.7$		= Square Feet
Hectare (ha) _____	$\times 15499969.$		= Square Inch
	$\times .01$		= Square Kilometer
	$\times 10000.$		= Square Meter
	$\times .00386101$		= Square Mile
	$\times 395.366$		= Square Rod
	$\times 11959.85$		= Square Yard
Hecto _____	= 100. = 10 ²		= One Hundred
Hectogram (hg) _____	$\times 10.$		= Decagram
	$\times 1543.23488$		= Grain
	$\times 100.$		= Gram
	$\times .001$		= Hundredweight
	$\times 3.527398$		= Ounce Avoir
	$\times 3.215$		= Ounce Troy
	$\times .22046$		= Pound Avoir
	$\times .26792$		= Pound Troy
Hectoliter (hl) _____	$\times 2.75$		= Bushel British
	$\times 2.8378$		= Bushel US Struck
	$\times 3.53159$		= Cubic Feet
	$\times .1$		= Cubic Meter
	$\times .1308$		= Cubic Yard
	$\times 26.42$		= Gallon Liquid US
	$\times 100.$		= Liter
	$\times 11.321$		= Peck
Hectometer (hm) _____	$\times 328.089$		= Feet
	$\times 3937.079$		= Inch
	$\times 100.$		= Meter
	$\times .06214$		= Mile Statute US
	$\times 109.361114$		= Yard
Hectopieze _____	$\times .9871$		= Bar
	$\times 29.53$		= Inch of Mercury
Hefner _____	$\times .90$		= Bougie Decimales
	$\times .864$		= Candle English
	$\times .855$		= Candle German

CONVERSION FACTORS

H

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

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

CONVERSION FACTORS

H

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

H CONVERSION FACTORS

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

CONVERSION FACTORS

H

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
	× .4/08989	= 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
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 _____		= .4/052
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
	× .4/01371	= Mile Nautical US
	× .4/015783	= Mile Statute US
	× 25.4000508	= Millimeter
	× 25400050.8	= Millimicron
	× 1000.	= Mil
	× .4/0254	= Kilometer
	× .8/01998	= Part of Earth Polar Axis
	× .005050	= Rod
	× .1111	= Span
	× .02777	= Yard
Inch Circular _____	× 6.54163	= Circular Centimeter
	× .00694444	= Circular Foot
	× 1(6/0).	= 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
	× .7/0421	= Horsepower-Hour
	× .7/03137	= 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 _____	× 2.778	= 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	°R 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

CONVERSION FACTORS

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)

CONVERSION FACTORS

K

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(5/0).	= Dyne-Centimeter
	× 418605(5/0).	= 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

K 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
	× .4/03613	= Pound/Cubic Inch
	× 1.68556	= Pound/Cubic Yard
	× .009711	= Pound/Gallon Dry US
	× .008345	= Pound/Gallon Liquid US
	× .9/03405	= 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

CONVERSION FACTORS

K

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

K CONVERSION FACTORS

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	= Pوندال-Second/Sq Centimeter
	× 5.6	= Pوندال-Second/Sq Inch
	× 67.2043	= Pوندال-Second/Sq Foot
	× 1.322	= Pوندال-Minute/Sq Centimeter
	× 336.	= Pوندال-Minute/Sq Inch
	× 4032.	= Pوندال-Minute/Sq Foot
	× 7.837	= Pوندال-Hour/Sq Centimeter
	× 20160.	= Pوندال-Hour/Sq Inch
	× 241935.48	= Pوندال-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

CONVERSION FACTORS

K

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

Kilogram-Mass/Meter-Second _____	× .3/02204	= 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		
	× .3/02204	= 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(5/0).		= Gram-Centimeter		
× .5/037037		= Horsepower Metric-Hour		
× .013333		= Horsepower Metric-Second		
× .5/0365303		= Horsepower US-Hour		
× .01315		= Horsepower US-Second		
× 9.80665		= Joule		
× .00234270		= Kilocalorie		
× .00234270		= Kilogram-Calorie		
× .5/0272407		= Kilowatt-Hour		
× .009807		= Kilowatt-Second		
× .09678		= Liter-Atmosphere		
× 9.80665		= Newton-Meter		
× .5/02778		= Poncelet-Hour		
Kilogram/Meter _____		× .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		

CONVERSION FACTORS

K

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

K CONVERSION FACTORS

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	
Kilo-Ounce Apoth-Troy/Year _____	× .6213699	= Mile Statute US/Hour/Sec	
	× 3.54823	= Gram/Hour	
	× .085157	= Kilogram/Day	
	× .98563	= Milligram/Second	
	× 2.73791	= Ounce Troy/Day	
	× .11408	= Ounce Troy/Hour	
	× .031104	= Ton Metric/Year	
	× .010197	= Atmosphere (Kg f/Sq Cm)	
	× .009869	= Atmosphere (760 Torr)	
	× .01	= Bar	
Kilopascal _____	× 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
× 1000.		= Volt	
Kilovolt (kv) _____	× 1000.	= Kilowatt	
Kilovolt-Ampere (kva) _____	× Power Factor	= Ampere × Volt	
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		

CONVERSION FACTORS

K

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

K CONVERSION FACTORS

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.	= Millilambert
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 _____	× .4/08	= 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

CONVERSION FACTORS

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
	× 12.5	= Cubic Feet
Crushed-1/2": Cubic Yard _____	× 2360.	= Pound
	× .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
	× .4/03827	= Horsepower-Hour Metric
	× .4/03775	= Horsepower-Hour US
	× 101.33	= Joule
	× .024218	= Kilocalorie
	× .024218	= Kilogram-Calorie
	× 10.333	= Kilogram-Meter
	× .4/02815	= Kilowatt-Hour
Liter/Cubic Meter _____	× .00748	= Gallon Liquid US/Cuft
Liter/Second _____	× 2.1186	= Cubic Feet/Minute
	× 15.85068	= Gallon Lq US/Minute
	= +1	= Valence
Lithium: (Li) _____		
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	= Napierian 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
Napierian _____	× .43429	= Common Logarithm
Napierian Base _____	= 2.71828182	
Napierian 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

CONVERSION FACTORS

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.	= Cuff/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

M CONVERSION FACTORS

Mass: Unit _____	× .0931	= Mev
Mass _____	× Light Velocity Squared	= Energy (Einstein)
Maximum Allowable Concentration _____	= 1.0	= Mac Value
Maxwell _____	× .001	= Kiloline
	× 1.	= Line
	× .10/0333585	= Magnetic Flux Unit
	× .99954	= Maxwell International
	× .7/01	= Volt-Second
	× .7/01	= Weber
Maxwell International _____	× 1.00046	= Maxwell
Maxwell/Square Centimeter _____	× 1.	= Gauss
	× 1.0	= Gauss Absolute
	× .99966	= Gauss International
	× 1.0	= Electromagnetic Unit
	× .9/033	= Electrostatic Unit
	× 1.0	= Line/Sqcm
	× 6.45163	= Line/Sqin
	× .10/0333585	= Magnetic Flux Density Unit
	× 6.452	= Maxwell/Square Inch
	= .10/0333585	= Statweber
	× .7/01	= Volt-Second/Sqcm
	× .7/01	= Weber/Sqcm
	× .7/0645163	= 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
	× .5/0116279	= 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(6/0). = 10 ⁶	= One Million
Megabar _____	× .9869	= Atmosphere
	× 1.0197	= Atmosphere Metric
	× 1(6/0).	= 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 _____	× .6/0986923	= Atmosphere 32F-76cm
	× 1.0	= Bar
	× 1(6/0).	= Barye
	× .4/075006	= Centimeter Mercury 32F
	× 1(6/0).	= Dyne/Square Centimeter
	× 1.013	= Hectopieze

CONVERSION FACTORS

M

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	= Sqn/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

M CONVERSION FACTORS

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 _____	× .5/0131579	= 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

CONVERSION FACTORS

M

<p>Meter/Second _____</p> <p>Meter/Second/Second _____</p> <p>Methane _____</p> <p>Methane: 30Hg60F: Gas: Boiling Point _____</p> <p style="padding-left: 20px;">Critical Pressure _____</p> <p style="padding-left: 20px;">Critical Temperature _____</p> <p style="padding-left: 20px;">Cuft _____</p> <p style="padding-left: 20px;">Cuft Mixed Air-Gas _____</p> <p style="padding-left: 20px;">Density: Cuft _____</p> <p style="padding-left: 20px;">Flame Propagation 1" Tube _____</p> <p style="padding-left: 20px;">Flame Temperature _____</p> <p style="padding-left: 20px;">Inflammability _____</p> <p style="padding-left: 20px;">Melting Point _____</p> <p style="padding-left: 20px;">Molecular Weight _____</p> <p style="padding-left: 20px;">% @ Max Flame Propagation Rate _____</p> <p style="padding-left: 20px;">Pound _____</p> <p style="padding-left: 20px;">Specific Gravity _____</p> <p style="padding-left: 20px;">Specific Heat: Cuft _____</p> <p style="padding-left: 40px;">Pound _____</p> <p style="padding-left: 40px;">Ratio _____</p> <p>Methane: 30Hg60F: Liquid: Degree API _____</p> <p style="padding-left: 20px;">Gallon _____</p> <p style="padding-left: 20px;">Pound _____</p> <p style="padding-left: 20px;">Specify Gravity _____</p> <p>Mev _____</p> <p>Mho _____</p> <p>Mho (B) _____</p> <p style="padding-left: 20px;">Susceptance × Ohm Squared Impedance _____</p> <p>Mho (G) _____</p> <p style="padding-left: 20px;">Conductance × Ohm Squared Impedance _____</p> <p>Mho (Y) _____</p> <p style="padding-left: 20px;">Admittance _____</p> <p>Mho/Centimeter Cube _____</p> <p>Mho/Meter _____</p> <p style="padding-left: 20px;">Mho/Meter × gm/cc _____</p> <p>Mho/Meter Cube _____</p> <p>Mho/Meter-Gram _____</p>	<p>× .1 = Kine</p> <p>× 1.943 = Knot US</p> <p>× 60. = Meter/Minute</p> <p>× .0062137 = Mile/Second</p> <p>× 2.23693 = Mile US Statute/Hour</p> <p>× 3.281 = Feet/Second/Second</p> <p>× 3.6 = Kilometer/Hour/Second</p> <p>× 2.23693 = Mile US/Hour/Second</p> <p>+ Oxygen = Carbon Dioxide + Water</p> <p>= 201.19 = Degree R</p> <p>= 673. = psi</p> <p>= 343.19 = Degree R</p> <p>× 1013. = Btu Gross Combustion Heat</p> <p>× 9.55 = Cuft Air to Burn</p> <p>× .04245 = Pound</p> <p>× 94.94 = Btu Gross Combustion Heat</p> <p>× .0422 = Pound</p> <p>= 2.17 = fps Max Rate</p> <p>= 3630. = Degree F Max</p> <p>= 14. = % Gas Upper Limit</p> <p>= 5.3 = % Gas Lower Limit</p> <p>= 430.04 = Degree R</p> <p>= 16.032 = Btu</p> <p>= 9.96 = Btu Heat Vaporization @ BP</p> <p>× 23861 = Pound Air for Combustion</p> <p>× 245. = (Air = 1)</p> <p>× 17.274 = Btu</p> <p>= .5544 = Btu</p> <p>× .0251 = Btu</p> <p>× .526 = Btu</p> <p>= 1.303</p> <p>= 340 = Cuft</p> <p>× 59.17 = Pound</p> <p>× 2.5 = Cuft</p> <p>× 23.66 = Cuft</p> <p>= .3</p> <p>× .5/016 = Erg</p> <p>× 1(6/0). = Electron Volt</p> <p>× .12/0118 = Foot-Pound</p> <p>× .13/0383 = Gram-Calorie</p> <p>× .19/0596 = Horsepower-Hour</p> <p>× .19/0445 = Kilowatt-Hour</p> <p>× .0017 = Mass Unit</p> <p>× Ohm = 1.0</p> <p>× .5/01 = Megmho</p> <p>× 1(6/0). = Micromho</p> <p>× 1.0 = Susceptance Unit</p> <p>× 1. = Ohm Reactance</p> <p>× 1.0 = Conductance Unit</p> <p>× 1. = Ohm Resistance</p> <p>× 1.0 = Admittance Unit</p> <p>× Volt = Ampere</p> <p>× 1.0 = Conductivity Unit</p> <p>× .10/01 = Abmho/Centimeter</p> <p>× .10/01 = Abmho/Centimeter Cube</p> <p>× 1.0 = Mho/Meter Cube</p> <p>× .8/01662 = Mho-Mil-Foot</p> <p>× .8/01662 = Mho/Mil-Foot</p> <p>× .7/01 = Micromho/Centimeter</p> <p>× .7/01 = Micromho/Centimeter Cube</p> <p>× .7/0254 = Micromho/Inch</p> <p>× .7/0254 = Micromho/Inch Cube</p> <p>= .5/01 × Mho/Meter-Gram</p> <p>= .5/01 × Mho-Meter-Gram</p> <p>× 1.0 = Mho/Meter</p> <p>× 1.0 = Mho-Meter-Gram</p>
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M 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

CONVERSION FACTORS

M

Microhm-Inch _____	× 1.0 × .7/0254 × .7/0254 × 15.2789 × 15.2789	= Microhm/Inch Cube = Ohm-Meter = Ohm/Meter = Ohm-Mil-Foot = Ohm/Mil-Foot
Microhm-Inch × gm/cc _____	× .0254 × .0254	= Ohm-Meter-Gram = Ohm/Meter-Gram
Microhm/Inch Cube _____	× 2.54 × 1.0 × 15.28	= Microhm/Centimeter Cube = Microhm-Inch = Ohm/Mil-Foot
Micro-Inch _____	× .5/01 × .4/0254	= Inch = Millimeter
Microliter _____	× .5/01	= Liter
Micromho/Centimeter _____	× .001 × .001 × 1(8/0). × 1(8/0). × .1662 × .1662 × 1.0 × 2.54 × 2.54	= Abmho/Centimeter = Abmho/Centimeter Cube = Mho/Meter = Mho/Meter Cube = Mho/Mil-Foot = Mho-Mil-Foot = Micromho/Centimeter Cube = Micromho/Inch = Micromho/Inch Cube
Micromho/Centimeter × gm/cc _____	= 100. = 100.	× Mho/Meter × Mho-Meter Cube
Micromho/Centimeter Cube _____	× 1.0	= Micromho Centimeter
Micromho/Inch _____	× .3/03937 × .3/03937 × 3937(4/0). × 3937(4/0). × .06524 × .3937 × .3937 × 1.0	= Abmho/Centimeter = Abmho/Centimeter Cube = Mho/Meter = Mho/Meter Cube = Mho/Mil-Foot = Micromho/Centimeter = Micromho/Centimeter Cube = Micromho/Inch Cube
Micromho/Inch × gm/cc _____	= 39.37 = 39.37	× Mho/Meter × Mho/Meter Cube
Micromho/Inch Cube _____	× 1.0	= Micromho/Inch
Micromicro _____	= .11/01 = 10 ⁻¹²	= One Trillionth
Micromicrofarad Minus 12 _____	= 67.5	× Oil Dielectric Constant
Micromicron _____	× .5/01 × .9/01 × .001	= Micron = Millimeter = Millimicron
Micron _____	× 10000. × .0001 × .5/032808 × .4/03937 × .8/01 × .5/01 × 1(6/0). × .001 × 1000. × 39.37 × .5/010936	= Angstrom = Centimeter = Feet = Inch = Kilometer = Meter = Micromicron = Millimeter = Millimicron = Millionth of Inch = Yard
Microvolt _____	× 100. × .001 × .8/03335 × .5/01	= Abvolt = Millivolt = Statvolt = Volt
Microvolt/Meter _____	× 1.0 × .10/01 × .001 × .10/03335 × .7/01 × .7/0254 × .10/0254 × .5/01 × .00254000508 × .4/08333	= Abvolt/Centimeter = Kilovolt/Centimeter = Millivolt/Meter = Statvolt/Centimeter = Volt/Centimeter = Volt/Inch = Volt/Mil = Volt/Meter = Centimeter = Feet US

M ————— 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

CONVERSION FACTORS

M

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

M CONVERSION FACTORS

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

CONVERSION FACTORS

M

<p>Minim _____</p> <p>Minute _____</p> <p>Minute in Arc × Radius _____</p> <p>Minute of Longitude _____</p> <p>Moh Scale: 1-Talc 2-Gypsum 3-Calc Spar 4-Flourspar 5-Apatite 6-Feldspar 7-Quartz 8-Topaz 9-Sapphire 10-Diamond</p> <p>Mol (Any Gas 60F-14.7 psia) _____</p> <p>Molal Solution = 1 Mole of Solute in 1000 gm of Water</p> <p>Molar Solution = 1 Mole of Solute in a Liter of Solution.</p> <p>Mole _____</p> <p>Mole = Molecular or Formula wgt in gms of Solute in a Liter of Solution.</p> <p>Molecular Pound-Mass (Fluid) _____</p> <p>Molecular Pound-Volume (Fluid) _____</p> <p>Molecular Weight _____</p> <p>Molecular Weight in Grams _____</p> <p>Molecular Weight = Sum of Atomic Weights in Compound or Element.</p> <p>Molecular Weight × (R=cuft-Lb/°R/Lb _____ = 1544.</p> <p>Molybdenum: (Mo):#42:95.95 AW: .064 SpHt: gm/cc 10.2: .35 gm-cal/°Sec/Sqcm/°C/cm: Linear Expansion: Inch _____</p> <p>Monel: Linear Expansion: Inch _____</p> <p>Monosodium Phosphate + Cal Carb + Sod Hydrox _____ = Cal Phos</p> <p>Month Calendar _____</p> <p>Month Lunar _____</p> <p>Mortar: Cubic Feet _____</p> <p style="margin-left: 20px;">Regular: In Parts: 1 Portland Cement: 3 Sand: .2 Hyd Lime.</p> <p style="margin-left: 20px;">Rich: In Parts: 1 Portland Cement: 2 Sand: .2 Hyd Lime.</p> <p style="margin-left: 20px;">Waterproof: 10# Lime to 1 Sack of Cement.</p> <p>Mortar or Brick Wash: Water + HC1(10%)</p> <p>Mortar (1:2) :Cubic Yard Mortar _____</p> <p style="margin-left: 40px;">Cubic Yard Sand _____</p> <p style="margin-left: 40px;">Ton of Patent Plaster _____</p> <p>Mortar(1:2-1/2) :Cubic Yard Mortar _____</p> <p style="margin-left: 40px;">Cubic Yard Sand _____</p> <p style="margin-left: 40px;">Ton Patent Plaster _____</p> <p>Mortar (1:3) :Cubic Yard Mortar _____</p> <p style="margin-left: 40px;">Cubic Yard Sand _____</p> <p style="margin-left: 40px;">Ton of Patent Plaster _____</p> <p>Mortar (1/2:1:2) _____</p> <p style="margin-left: 40px;">Cuyd _____</p> <p style="margin-left: 40px;">Cuyd _____</p>	<p>× 1.0 = Drop (Water)</p> <p>× 2.0 = Drops (Alcoholic Medicine)</p> <p>× .4/o16276 = Gallon Liquid US</p> <p>× .000520833 = Gill</p> <p>× .4/o6161 = Liter</p> <p>× .0616102 = Milliter</p> <p>× .00208333 = Ounce Fluid</p> <p>× .000130208 = Pint Liquid US</p> <p>× .4/o65104 = Quart Liquid US</p> <p>× .4/o463 = Circle</p> <p>× .000694 = Day</p> <p>× .016666 = Degree</p> <p>× .01852 = Grade</p> <p>× .01666 = Hour</p> <p>× .4/o228 = Month (1/12 Year)</p> <p>× .000290888 = Radian</p> <p>× .4/o463 = Revolution</p> <p>× 60. = Second</p> <p>× .0001852 = Quadrant</p> <p>× .5/o1903 = Year</p> <p>× .000290888 = Length of Arc</p> <p>× 4.0 = Second of Time</p> <p>× 379. = Cubic Feet</p> <p>× 1.0 = Gram-Molecule</p> <p>× 1.0 = Mole</p> <p>× 1.0 = Gram-Molecular Weight</p> <p>× 1.0 = Mol</p> <p>× 1.0 = Mol-Volume</p> <p>× Pound Weight: = Mol Weight</p> <p>× Gram Weight: = Mol Weight</p> <p>= Gram-Molecular Weight</p> <p>= Molar Gas Constant</p> <p>= Micro-Inch/Degree F</p> <p>= Micro-Inch/Degree F</p> <p>+ Sod Carb + Water</p> <p>= Day (Standard Calculation)</p> <p>= Hour</p> <p>= Minute</p> <p>= Second</p> <p>= Day</p> <p>= Will Lay Cubic Feet Brick</p> <p>= Cubic Yard Sand.</p> <p>= Ton of Patent Plaster</p> <p>= Ton of Patent Plaster</p> <p>= Cubic Yard Sand</p> <p>= Cubic Yard Sand</p> <p>= Ton of Patent Plaster</p> <p>= Ton of Patent Plaster</p> <p>= Cubic Yard Sand</p> <p>= Cubic Yard Sand</p> <p>= Ton of Patent Plaster</p> <p>= Ton of Patent Plaster</p> <p>= Cubic Yard Sand</p> <p>= Cubic Yard Sand</p> <p>= Barrels Cement</p> <p>= Sack Cement</p>
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M CONVERSION FACTORS

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

CONVERSION FACTORS

N

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
	× fps	= Kilogram-Mass
	× 7.233	= Pوندال
	× .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
	× .4/011574	= Day
Number (Thread-Fiber) _____	× 840.	= Yard/Pound
Number Turn × Ampere _____	× 1.256637	= Gilbert
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(5/0).	= 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(9/0).	= Electromagnetic Unit
	× .10/01	= 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(11/0).	= Abohm-Centimeter
	× 1(11/0).	= Abohm/Centimeter Cube
	× 1(8/0).	= Microhm-Centimeter
	× 1(8/0).	= Microhm/Centimeter Cube
	× 3937(4/0).	= Microhm-Inch
	× 3937(4/0).	= Microhm/Inch Cube
	× 1.0	= Ohm/Meter
	× 6015(5/0).	= Ohm-Mil-Foot

CONVERSION FACTORS



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

CONVERSION FACTORS

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
Once 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
	× .4/03061	= Ton Long
	× .4/0311034	= Ton Metric
	× .4/03429	= Ton Short
Once 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
Once 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
Once 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
Once Avoirdupois (Oz) _____	× 141.7476	= Carat
	× .000625	= Cwt
	× 7.29167	= Dram Apoth

CONVERSION FACTORS

Ounce Avoirdupois (Oz) _____	× 16.0 × 437.5 × 28.349527 × .028350 × 28349.527 × .9114583 × 18.22917 × .075955 × .0625 × 21.875 × .4/0279 × .4/02835 × .4/03125	= Dram Avoir = Grain = Gram = Kilogram = Milligram = Ounce Apoth-Troy = Pennyweight = Pound Apoth-Troy = Pound Avoir = Scruple = Ton Long = Ton Metric = 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
	× .4/03868	= 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
	× .4/03061	= Ton Long
	× .4/03110	= Ton Metric
	× .4/03429	= 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

CONVERSION FACTORS

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

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% = 3 Qt. = 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% = 2 Qt. = 92 oz.	1/2" = 7.15%	= 9 oz.
4" = 57.20% = 1 Qt. = 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% = 1 Qt. = 55 oz.	1/16" = .89%	= 1.125 oz.

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 Fc: _____	× 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

CONVERSION FACTORS

P

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 × 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 _____	× 110041.	= 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 (π) _____	× 1.	= 3.1415926535897932384626
	× 2.	= 6.283185531
	× 3.	= 9.42477796
	× 4.	= 12.56637061
	× 5.	= 15.70796327
	× 6.	= 18.84955592

CONVERSION FACTORS

Pi (π) _____	× 7.	= 21.99114857
	× 8.	= 25.13274123
	× 9.	= 28.27433388
	× π	= 9.869604401 = π^2
Pi (π) 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 π	= .49714987
	= Log $\pi/4$	= 9.89509-10
	Square Root of π	= 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 π	= .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

P 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 _____	× .4/08095195	= 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

CONVERSION FACTORS

P

Pipe: Globe Valve: Diam Inch _____	× 26.	= Equiv Feet of Pipe
Inch ID × fps _____	× .32724	= Cuff/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	= 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 (1"=Thick Inch)
Plastic: Specific Heat _____	= .35	= Btu/Pound/°F
Plating: Aluminum: Amp × Second _____	× 4/0939	= 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 _____	× 4/01045	= Gram Deposited at Cathode
Nickel: Amp × Second _____	× .000304	= Gram Deposited at Cathode
Oxygen: Amp × Second _____	× 4/08291	= 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

CONVERSION FACTORS

P

<p>Poise _____</p>	<p>× 980.7 × .001 × .1 × 6. × 360. × .010194 × .02247 × .4/o145 × .00209 × .6/o242 × .4/o348 × .4/o2204 × .0056 × .0672043 × .001322 × .336 × 4.032 × .007837 × 20.16 × 241.935 × .4/o2204 × .0056 × .06720 × .001322 × .336 × 4.032 × .007837 × 20.16 × 241.93 × Rhe</p>	<p>= Gram-Mass-Second/Sqcm = Kilogram-Mass/Centimeter-Second = Kilogram-Mass/Meter-Second = Kilogram-Mass/Meter-Minute = Kilogram-Mass/Meter-Hour = Kilogram-Force-Second/Sq Meter = Pound-Force-Second/Sq Meter = Pound-Force-Second/Sq Inch = Pound-Force-Second/Sq Foot = Pound-Force-Minute/Sq Inch = Pound-Force-Minute/Sq Foot = Pound-Mass/Centimeter-Second = Pound-Mass/Inch-Second = Pound-Mass/Foot-Second = Pound-Mass/Centimeter-Minute = Pound-Mass/Inch-Minute = Pound-Mass/Foot-Minute = Pound-Mass/Centimeter-Hour = Pound-Mass/Inch-Hour = Pound-Mass/Foot-Hour = Pوندال-Second/Sq Centimeter = Pوندال-Second/Sq Inch = Pوندال-Second/Sq Foot = Pوندال-Minute/Sq Centimeter = Pوندال-Minute/Sq Inch = Pوندال-Minute/Sq Foot = Pوندال-Hour/Sq Centimeter = Pوندال-Hour/Sq Inch = Pوندال-Hour/Sq Foot</p>
<p>Pole _____</p>	<p>× 16.5 × 5.0292 × 1. × 5.5</p>	<p>= Feet = Meter = Rod = Yard</p>
<p>Polygon: Irregular: Divide into Triangles. Compute. Add Areas for Total Area. Regular: Apothem × Perimeter _____ Radius Squared × Sides _____</p>	<p>× .5 × tan 180/Sides</p>	<p>= Area = Area</p>
<p>Ponce _____</p>	<p>× 2.71 × 1.</p>	<p>= Centimeter = French Inch</p>
<p>Poncelet _____</p>	<p>× 3346. × 55.77948 × .92957 × 1(7/o). × 723.3 × 1.33333 × 1.31509 × .23425 × 100. × .9806 × 980.597 × 2603880. × 360000.</p>	<p>= Btu/Hour = Btu/Minute = Btu/Second = Erg/Second = Foot-Pound/Second = Horsepower Metric = Horsepower US = Kilogram-Calorie/Second = Kilogram-Meter/Second = Kilowatt = Watt = Foot-Pound = Kilogram-Meter-Hour = Sqft Pond Area Needed = Pound Water Sprayed/Hour = psi = Feet = Cubic Inch = Funt = Gallon British = Gallon US = Kilogram = Pound Avoir US = Btu/Pound/°F</p>
<p>Poncelet-Hour _____</p>	<p>× 2603880. × 360000.</p>	<p>= Foot-Pound = Kilogram-Meter-Hour</p>
<p>Ponds: Spray: Pound Water Sprayed/Hour _____ Sqft Pond Area Needed _____ Nozzle Pressure Should Be _____ Maximum Pond Depth _____</p>	<p>× .005 × 200. = 7 - 10 = 3</p>	<p>= Sqft Pond Area Needed = Pound Water Sprayed/Hour = psi = Feet</p>
<p>Pood _____</p>	<p>× 1000. × 40. × 3.6 × 4.32 × 16.3805 × 36.112 × 77.578</p>	<p>= Cubic Inch = Funt = Gallon British = Gallon US = Kilogram = Pound Avoir US = Barrel (42) Acre-Foot</p>
<p>Porcelain: Specific Heat _____</p>	<p>= .26</p>	<p>= Btu/Pound/°F</p>
<p>Porosity of Oil Sand in Percent _____</p>	<p>× 77.578</p>	<p>= Barrel (42) Acre-Foot</p>
<p>Potassium Chloride + Sodium Nitrate _____</p>	<p>= Potassium Nitrate + Sodium Chloride</p>	<p></p>
<p>Potassium: (K): #19.39.096 AW: Val. + 1: SpHt .177: .87 gm/cc: MP 63.5C: BP 774C:</p>	<p></p>	<p></p>

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
	× .4/0309	= 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
	× .5/0414	= Kilogram-Mass/Centimeter-Second
	× .000414	= Kilogram-Mass/Meter-Second
	× .0248	= Kilogram-Mass/Meter-Minute
	× 1.49	= Kilogram-Mass/Meter-Hour
	× .4/0421	= Kilogram-Force-Second/Sq Meter
	× .00414	= Poise
	× .4/093	= Pound-Force-Second/Sq Meter
	× .7/06	= Pound-Force-Second/Sq Inch
	× .5/0864	= Pound-Force-Second/Sq Foot
	× .8/01	= Pound-Force-Meter/Sq Inch

CONVERSION FACTORS

P

<p>Poundal-Hour/Square Foot _____</p>	<p>× .6/0144 × .7/0911 × .4/0231 × .3/0278 × .5/0545 × .00139 × .0166 × .4/0324 × .0832 × 1.0 × .7/0911 × .4/0231 × .3/0278 × .5/0545 × .00139 × .0166 × .4/0324 × .0832</p>	<p>= Pound-Force-Meter/Sq Foot = Pound-Mass/Centimeter-Second = Pound-Mass/Inch-Second = Pound-Mass/Foot-Second = Pound-Mass/Centimeter-Minute = Pound-Mass/Inch-Minute = Pound-Mass/Foot-Minute = Pound-Mass/Centimeter-Hour = Pound-Mass/Inch-Hour = Pound-Mass/Foot-Hour = Poundal-Second/Sq Centimeter = Poundal-Second/Sq Inch = Poundal-Second/Sq Foot = Poundal-Minute/Sq Centimeter = Poundal-Minute/Sq Inch = Poundal-Minute/Sq Foot = Poundal-Hour/Sq Centimeter = Poundal-Hour/Sq Inch = Centipoise</p>
<p>Poundal-Hour/Square Inch _____</p>	<p>× 4.96 × .0496 × 496. × .32 × 46.1 × .0496 × 2.98 × 178. × .4/0496 × .00496 × .298 × 17.8 × .3/0505 × .0496 × .2/0111 × .6/072 × .000103 × .7/012 × .5/0172</p>	<p>= Dyne-Second/Sq Centimeter = Dyne-Second/Sq Meter = Dyne-Second/Sq Inch = Dyne-Second/Sq Foot = Gram-Mass/Centimeter-Second = Gram-Mass/Centimeter-Minute = Gram-Mass/Centimeter-Hour = Kilogram-Mass/Centimeter-Second = Kilogram-Mass/Meter-Second = Kilogram-Mass/Meter-Minute = Kilogram-Mass/Meter-Hour = Kilogram-Force-Second/Sq Meter = Poise = Pound-Force-Second/Sq Meter = Pound-Force-Second/Sq Inch = Pound-Force-Second/Sq Foot = Pound-Force-Meter/Sq Inch = Pound-Force-Meter/Sq Foot</p>
<p>Poundal-Hour/Square Inch _____</p>	<p>× .5/0109 × .3/0278 × .00333 × .4/0656 × .0167 × .2 × .000389 × 1.0 × 12. × .5/0109 × .3/0278 × .00333 × .4/0656 × .0167 × .2 × .000389 × 12.</p>	<p>= Pound-Mass/Centimeter-Second = Pound-Mass/Inch-Second = Pound-Mass/Foot-Second = Pound-Mass/Centimeter-Minute = Pound-Mass/Inch-Minute = Pound-Mass/Foot-Minute = Pound-Mass/Centimeter-Hour = Pound-Mass/Inch-Hour = Pound-Mass/Foot-Hour = Poundal-Second/Sq Centimeter = Poundal-Second/Sq Inch = Poundal-Second/Sq Foot = Poundal-Minute/Sq Centimeter = Poundal-Minute/Sq Inch = Poundal-Minute/Sq Foot = Poundal-Hour/Sq Centimeter = Poundal-Hour/Sq Foot = Dyne/Centimeter = Gram/Centimeter = Pound/Inch = Centipoise</p>
<p>Poundal/Inch _____</p>	<p>× 5443.11 × 5.55081 × .0310832</p>	<p>= Dyne-Second/Sq Centimeter = Dyne-Second/Sq Meter = Dyne-Second/Sq Inch = Dyne-Second/Sq Foot = Gram-Mass/Centimeter-Second = Gram-Mass/Centimeter-Minute = Gram-Mass/Centimeter-Hour = Kilogram-Mass/Centimeter-Second</p>
<p>Poundal-Minute/Square Centimeter _____</p>	<p>× 75700. × 757. × 7570000. × 4870. × 702000. × 757. × 45400. × 2720000. × .757</p>	<p>= Centipoise = Dyne-Second/Sq Centimeter = Dyne-Second/Sq Meter = Dyne-Second/Sq Inch = Dyne-Second/Sq Foot = Gram-Mass/Centimeter-Second = Gram-Mass/Centimeter-Minute = Gram-Mass/Centimeter-Hour = Kilogram-Mass/Centimeter-Second</p>

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
	× .3/0183	= Pound-Force-Minute/Sq Inch
	× .0265	= Pound-Force-Minute/Sq Foot
	× .0166	= Pound-Mass/Centimeter-Second
	× 4.23	= Pound-Mass/Inch-Second
	× 50.8	= Pound-Mass/Foot-Second
Poundal-Minute/Square Centimeter _____	× 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	= Poudal-Second/Sq Centimeter
	× 4.23	= Poudal-Second/Sq Inch
	× 50.8	= Poudal-Second/Sq Foot
	× 254.	= Poudal-Minute/Sq Inch
	× 3050.	= Poudal-Minute/Sq Foot
	× 5.92	= Poudal-Hour/Sq Centimeter
	× 15200.	= Poudal-Hour/Sq Inch
× 183000.	= Poudal-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
	× .5/0359	= Pound-Force-Second/Sq Inch
	× .000517	= Pound-Force-Second/Sq Foot
	× .7/06	= Pound-Force-Minute/Sq Inch
	× .5/0862	= Pound-Force-Minute/Sq Foot
	× .5/0556	= 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
	× .5/0556	= Poudal-Second/Sq Centimeter
	× .00138	= Poudal-Second/Sq Inch
	× .0166	= Poudal-Second/Sq Foot
	× .000327	= Poudal-Minute/Sq Centimeter
	× .0834	= Poudal-Minute/Sq Inch
× .0019	= Poudal-Hour/Sq Centimeter	
× 5.	= Poudal-Hour/Sq Inch	
× 60.	= Poudal-Hour/Sq Foot	
Poundal-Minute/Square Inch _____	× 298.	= Centipoise
	× 2.98	= Dyne-Second/Sq Centimeter
	× 29800.	= Dyne-Second/Sq Meter

CONVERSION FACTORS

P

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

Poundal-Second/Square Centimeter _____	× 356.	= Poundal-Hour/Sq Centimeter
	× 914000.	= Poundal-Hour/Sq Inch
	× 109(5/0).	= 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
	× .5/036	= Pound-Force-Minute/Sq Inch
	× .000517	= Pound-Force-Minute/Sq Foot
Poundal-Second/Square Foot _____	× .3/0328	= 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
	× .3/0328	= Poundal-Second/Sq Centimeter
	× .0832	= Poundal-Second/Sq Inch
	× .0196	= Poundal-Second/Sq Foot
	× 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
	× .4/043	= Pound-Force-Minute/Sq Inch
	× .0062	= Pound-Force-Minute/Sq Foot
Poundal-Second/Square Inch _____	× .00394	= Pound-Mass/Inch-Second
	× 1.0	= Pound-Mass/Foot-Second
	× 12.	= Pound-Mass/Centimeter-Minute
	× .236	= Pound-Mass/Inch-Minute
	× 60.	= Pound-Mass/Foot-Minute
	× 720.	= Pound-Mass/Centimeter-Hour
	× 1.4	= Pound-Mass/Inch-Hour
	× 3600.	

CONVERSION FACTORS

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Poundal-Second/Square Inch _____	× 4325. × .00394 × 12. × .236 × 60. × 720. × 1.4 × 3600. × 4325.	= Pound-Mass/Foot-Hour = Poundal-Second/Sq Centimeter = Poundal-Second/Sq Foot = Poundal-Minute/Sq Centimeter = Poundal-Minute/Sq Inch = Poundal-Minute/Sq Foot = Poundal-Hour/Sq Centimeter = Poundal-Hour/Sq Inch = Poundal-Hour/Sq Foot
Poundal/Square Inch _____	× 2142.97 × 2.18536 × .031081	= Dyne/Square Centimeter = Gram/Square Centimeter = Pound/Square Inch
Pound Apothecaries and Troy _____	× 22.816 × 210.5614 × 96. × 5760. × 373.24 × .37324177 × 373241.77 × 12. × 13.1657 × 240. × .8228571 × 288. × .3/03673 × .3/03732 × .3/04114	= Cubic Inch Water 62F = Dram Avoir = Dram Troy = Grain Apoth-Troy-Avoir = Gram = Kilogram = Milligram = Ounce Apoth-Troy = Ounce Avoir = Pennyweight Troy = Pound Avoir = Scruple Troy = Ton Long = Ton Metric = Ton Short
Pound Avoirdupois _____	× 2267.9616 × .01 × 116.6667 × 256. × 7000. × 453.5924277 × .00893 × .01 × .45359245 × .4535924277 × 453592.42 × 291.6667 × 14.5833 × 16. × 32.174 × 1.21528 × 350. × .031081 × .0004464 × .3/0453592 × .0005	= Carat = Cwt = Dram Apoth = Dram Avoir = Grain = Gram = Hundredweight Long = Hundredweight Short = Kilogram (England) = Kilogram (US) = Milligram = Pennyweight = Ounce Apoth-Troy = Ounce Avoir = Poundal = Pound Apoth-Troy = Scruple = Slug = Ton Long = Ton Metric = Ton Short
Pound Avoirdupois × Feet/Minute _____	× .4/030303	= HP to Hoist Vertical
Pound Avoirdupois/Day _____	× 18.89969 × .45359 × 5.24991 × .66667 × .041667 × .16567 × .18262	= Gram/Hour = Kilogram/Day = Milligram/Second = Ounce Avoir/Hour = Pound Avoir/Hour = Ton Metric/Year = Ton Short Avoir/Year
Pound Avoirdupois/Hour _____	× 453.59243 × 10.88622 × 125.99790 × 16. × 24. × 3.97611 × 4.38291	= Gram/Hour = Kilogram/Day = Milligram/Second = Ounce Avoir/Hour = Pound Avoir/Day = Ton Metric/Year = Ton Short/Year
Pound Avoirdupois/Kilo-Foot _____	× 1.488	= Kilogram/Kilometer
Pound/Bushel _____	× .01287 × 12.8718	= Gram/Cubic Centimeter = Kilogram/Cubic Meter

P CONVERSION FACTORS

Pound/Bushel _____	× 1.28718 × .80356 × .000465 × 21.6962 × .125 × .10742	= Kilogram/Hectoliter = Pound/Cubic Foot = Pound/Cubic Inch = Pound/Cubic Yard = Pound/Gallon Dry US = Pound/Gallon Liquid US
Pound-Calorie _____	× 1.8 × 453.6 × .4536 × 453.474 × 4.53474	= Btu = Gram-Calorie = Kilogram-Calorie = Mean Calorie = Ostwald Calorie
Pound Centigrade Heat Unit (lb-Chu) _____	× 1.8 × 453.6 × 1399.5 × .4/070686 × .3/071718 × 2.57968 × 2.5346 × 1897.2 × .4536 × 193.5 × .3/052704 × 1.89881 × 1.0 × 1.0 × .52704	= Btu = Gram-Calorie = Foot-Pound = Horsepower US-Hour = Horsepower-Metric-Hour = Horsepower-Metric-Second = Horsepower US-Second = Joule = Kilogram-Calorie = Kilogram-Meter = Kilowatt-Hour = Kilowatt-Second = pcu = Pound-Chu = Watt-Hour
Pound-Chu _____	× 1.0	= Pound Centigrade Heat Unit
Pound-Chu/Hr-Sqft/Ft/°C _____	× .00413 × 173. × .0173	= Gram-Cal/Sec-Sqcm/cm/°C = Kilo-Erg/Sec-Sqcm/cm/°C = Watt/Sqcm/cm/°C
Pound/Cubic Foot _____	× .0160184 × 16.0184 × 1.60184 × 1.24446 × .0005787 × 27. × .031081 × .15555 × .13368 × Cubic Foot × .8/05456 × .031081 × .016037206 × .016034377 × .016019222 × .012054 × .01602 × .0005 × .0135	= Gram/Cubic Centimeter = Kilogram/Cubic Meter = Kilogram/Hectoliter = Pound/Bushel US = Pound/Cubic Inch = Pound/Cubic Yard = Pound-Force Density = Pound/Gallon Dry US = Pound/Gallon Liquid US = Pound-Mass = Pound/Mil-Foot = Slug/Cubic Foot = Specific Gravity 62F = Specific Gravity 60F = Specific Gravity 39.1F = Ton Long/Cu Yard = Ton Metric/Cu Meter = Ton Short/Cubic Foot = Ton Short/Cubic Yard
Pound/Cubic Inch _____	× 27.67974 × 27679.74 × 2767.97 × 2150.42688 × 1728. × 46656. × 268.803 × 231. × .5/09425 × 27.681 × 27.712 × 27.707 × 20.83 × 27.68 × .864 × 23.33	= Gram/Cubic Centimeter = Kilogram/Cubic Meter = Kilogram/Hectoliter = Pound/Bushel US Struck = Pound/Cubic Foot = Pound/Cubic Yard = Pound/Gallon Dry US = Pound/Gallon Liquid US = Pound/Mil-Foot = Specific Gravity 39.1F = Specific Gravity 62F = Specific Gravity 60F = Ton Long/Cubic Yard = Ton Metric/Cubic Yard = Ton Short/Cubic Foot = Ton Short/Cubic Yard
Pound/Cubic Yard _____	× .000593272	= Gram/Cubic Centimeter

CONVERSION FACTORS

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Pound/Cubic Yard _____	× .59327 × .059327 × .04609 × .037037 × .4/0214334 × .005761 × .004951 × .0004464 × .005933 × .0005	= Kilogram/Cubic Meter = Kilogram/Hectoliter = Pound/Bushel US Struck = Pound/Cubic Foot = Pound/Cubic Inch = Pound/Gallon Dry US = Pound/Gallon Liquid US = Ton Long/Cubic Yard = Ton Metric/Cubic Meter = Ton Short/Cubic Yard
Pound-Foot _____	× 13560000. × 13830. × .1383 × 1.305	= Dyne-Centimeter = Gram-Centimeter = Kilogram-Meter = Newton-Meter
Pound/Foot _____	× 583.333 × 14.88161 × 37.79937 × 1488.16 × 1.4881459 × .0833 × 3.0	= Gram/Inch = Gram/Centimeter = Gram/Inch = Kilogram/Kilometer = Kilogram/Meter = Pound/Inch = Pound/Yard
Pound-Foot Squared _____	× 421434. × .0421434 × 144. × .0310811	= Gram-Centimeter Squared = Kilogram-Meter Squared = Pound-Inch Squared = Slug-Foot Squared
Pound-Force-Apoth _____	× 366025.	= Dyne
Pound-Force-Avoird _____	× 444822. × 32.174 × Foot Height × 453.5924277 × .0448 × 4.448 × .45359 × .4536 × 4.448 × 32.174 × 1. × .031081 × 1.	= Dyne = Feet/Second/Second = Foot-Pound Potential Energy = Gram-Force = Joule/Centimeter = Joule/Meter = Kilogram = Kilogram-Force = Newton = Poundal = Pound-Force-Avoird = Pound-Mass = 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	× Second Squared = Btu × Foot
× Sp Heat Btu/lb-° F × °F _____	× Second Squared =	= Pound/Cubic Foot Density
Pound-Force Density _____	× 32.174	× Second Squared
× Foot Fourth Power _____	= Pound-Force	= Abs Vis Pound-Force-sec/Sqft
× Kinematic Vis Sqft/sec _____	× 2870000. × 28700. × 287(6/o). × 18500. × 267(5/o). × 28700. × 1720000. × 1035(5/o). × 28.7 × 2870. × 172000. × 10350000. × 293. × 28700. × 645. × .416 × 60. × .00695	= Centipoise = Dyne-Second/Sq Centimeter = Dyne-Second/Sq Meter = Dyne-Second/Sq Inch = Dyne-Second/Sq Foot = Gram-Mass/Centimeter-Second = Gram-Mass/Centimeter-Minute = Gram-Mass/Centimeter-Hour = Kilogram-Mass/Centimeter-Second = Kilogram-Mass/Meter-Second = Kilogram-Mass/Meter-Minute = Kilogram-Mass/Meter-Hour = Kilogram-Force-Second/Sq Meter = Poise = Pound-Force-Second/Sq Meter = Pound-Force-Second/Sq Inch = Pound-Force-Second/Sq Foot = Pound-Force-Second/Sq Inch
Pound-Force-Minute/Sq Foot _____	× .634 × 161.	= Pound-Mass/Centimeter-Second = Pound-Mass/Inch-Second

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).
× 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
Pound-Force-Minute/Square Inch _____	× 144.	= Pound-Force-Minute/Sq Foot
	× 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
Pound-Force-Second/Square Foot _____	× 832(5/o).	= Poundal-Hour/Sq Inch
	× 9990000.	= Poundal-Hour/Sq 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

CONVERSION FACTORS

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

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	
	× .5/0107	= 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	
Pound/Hour-Square Foot _____	× .00374	= Ton Short/Cubic Foot	
	× .1010	= Ton Short/Cubic Yard	
	× 1.0	= Mass Velocity Unit	
	Pound/HP-Hour × Reaction Voltage _____	× 1.6457	× Gram/Ampere-Hour
		× 14426.5	× Gram/Ampere-Hour
	Pound/HP-Year × Reaction Voltage _____	× 178.577508	= Gram/Centimeter
		× 453.5883735	= Gram/Inch
	Pound/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	

CONVERSION FACTORS

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Pound-Mass _____	× .046253 × 32.174 × fps Squared × .031081	= Kilogram-Slug Mass = Pound-Force = Pound-Force = 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(11/0).	= Btu (Energy)
Pound-Mass × Specific Heat Btu/Lb-°F _____	× °F	= Btu
Pound-Mass/Centimeter-Hour _____	× 12700. × 127. × 1270000. × 820. × 118500. × 127. × 7650. × 460000. × .127 × 12.7 × 765. × 46000. × 1.3 × 127. × 2.87 × .00185 × .266 × .4/0309 × .00444 × .00281 × .715 × 8.57 × .168 × 42.9 × 515. × 2570. × 30900. × .00281 × .715 × 8.57 × .168 × 42.9 × 515 × 1.0 × 2570. × 30900. × 75700.	= Centipoise = Dyne-Second/Sq Centimeter = Dyne-Second/Sq Meter = Dyne-Second/Sq Inch = Dyne-Second/Sq Foot = Gram-Mass/Centimeter-Second = Gram-Mass/Centimeter-Minute = Gram-Mass/Centimeter-Hour = Kilogram-Mass/Centimeter-Second = Kilogram-Mass/Meter-Second = Kilogram-Mass/Meter-Minute = Kilogram-Mass/Meter-Hour = Kilogram-Force-Second/Sq Meter = Poise = Pound-Force-Second/Sq Meter = Pound-Force-Second/Sq Inch = Pound-Force-Second/Sq Foot = Pound-Force-Minute/Sq Inch = Pound-Force-Minute/Sq Foot = Pound-Mass/Centimeter-Second = Pound-Mass/Inch-Second = Pound-Mass/Foot-Second = Pound-Mass/Centimeter-Minute = Pound-Mass/Inch-Minute = Pound-Mass/Foot-Minute = Pound-Mass/Inch-Hour = Pound-Mass/Foot-Hour = Poundal-Second/Sq Centimeter = Poundal-Second/Sq Inch = Poundal-Second/Sq Foot = Poundal-Minute/Sq Centimeter = Poundal-Minute/Sq Inch = Poundal-Minute/Sq Foot = Poundal-Hour/Sq Centimeter = Poundal-Hour/Sq Inch = Poundal-Hour/Sq Foot = Centipoise
Pound-Mass/Centimeter-Minute _____	× 75700. × 757. × 7570000. × 4870. × 702000. × 757. × 45400. × 2720000. × .757 × 75.7 × 4540. × 272000. × 7.7 × 757. × 17. × .011 × 1.58 × .3/0183 × .0263	= Dyne-Second/Sq Centimeter = Dyne-Second/Sq Meter = Dyne-Second/Sq Inch = Dyne-Second/Sq Foot = Gram-Mass/Centimeter-Second = Gram-Mass/Centimeter-Minute = Gram-Mass/Centimeter-Hour = Kilogram-Mass/Centimeter-Second = Kilogram-Mass/Meter-Second = Kilogram-Mass/Meter-Minute = Kilogram-Mass/Meter-Hour = Kilogram-Force-Second/Sq Meter = Poise = Pound-Force-Second/Sq Meter = Pound-Force-Second/Sq Inch = Pound-Force-Second/Sq Foot = Pound-Force-Minute/Sq Inch = Pound-Force-Minute/Sq Foot
Pound-Mass/Centimeter-Minute _____	× .0166 × 4.23 × 50.8	= Pound-Mass/Centimeter-Second = Pound-Mass/Inch-Second = Pound-Mass/Foot-Second

CONVERSION FACTORS

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

CONVERSION FACTORS

P

<p>Pound-Mass/Foot-Hour _____</p>	<p>× .4/093 × .7/06 × .5/0864 × .8/01 × .6/0144 × .7/0911 × .4/0231 × .3/0278 × .5/0545 × .00139 × .0166 × .4/0324 × .0832 × .7/0911 × .4/0231 × .3/0278 × .5/0545 × .00139 × .0166 × .4/0324 × .0832 × 1.0</p>	<p>= Pound-Force-Second/Sq Meter = Pound-Force-Second/Sq Inch = Pound-Force-Second/Sq Foot = Pound-Force-Meter/Sq Inch = Pound-Mass/Centimeter-Second = Pound-Mass/Inch-Second = Pound-Mass/Foot-Second = Pound-Mass/Centimeter-Minute = Pound-Mass/Inch-Minute = Pound-Mass/Foot-Minute = Pound-Mass/Centimeter-Hour = Pound-Mass/Inch-Hour = Poundal-Second/Sq Centimeter = Poundal-Second/Sq Inch = Poundal-Second/Sq Foot = Poundal-Minute/Sq Centimeter = Poundal-Minute/Sq Inch = Poundal-Minute/Sq Foot = Poundal-Hour/Sq Centimeter = Poundal-Hour/Sq Inch = Poundal-Hour/Sq Foot</p>
<p>Pound-Mass/Foot-Minute _____</p>	<p>× 24.7 × .247 × 2470. × 1.6 × 230. × .247 × 14.9 × 890. × .000247 × .0247 × 1.49 × 89. × .00252 × .247 × .00556 × .5/0359 × .000517 × .7/06 × .5/0862</p>	<p>= Centipoise = Dyne-Second/Sq Centimeter = Dyne-Second/Sq Meter = Dyne-Second/Sq Inch = Dyne-Second/Sq Foot = Gram-Mass/Centimeter-Second = Gram-Mass/Centimeter-Hour = Kilogram-Mass/Centimeter-Second = Kilogram-Mass/Meter-Second = Kilogram-Mass/Meter-Minute = Kilogram-Mass/Meter-Hour = Kilogram-Force-Second/Sq Meter = Poise = Pound-Force-Second/Sq Meter = Pound-Force-Second/Sq Inch = Pound-Force-Second/Sq Foot = Pound-Force-Minute/Sq Inch = Pound-Force-Minute/Sq Foot</p>
<p>Pound-Mass/Foot-Minute _____</p>	<p>× .5/0556 × .00138 × .0166 × .000327 × .0834 × .0019 × 5. × 60. × .5/0556 × .00138 × .0166 × .000327 × .0834 × 1.0 × .0019 × 5. × 60.</p>	<p>= Pound-Mass/Centimeter-Second = Pound-Mass/Inch-Second = Pound-Mass/Foot-Second = Pound-Mass/Centimeter-Minute = Pound-Mass/Inch-Minute = Pound-Mass/Centimeter-Hour = Pound-Mass/Inch-Hour = Pound-Mass/Foot-Hour = Poundal-Second/Sq Centimeter = Poundal-Second/Sq Inch = Poundal-Second/Sq Foot = Poundal-Minute/Sq Centimeter = Poundal-Minute/Sq Inch = Poundal-Minute/Sq Foot = Poundal-Hour/Sq Centimeter = Poundal-Hour/Sq Inch = Poundal-Hour/Sq Foot</p>
<p>Pound-Mass/Foot-Second _____</p>	<p>× 1488. × 14.8 × 148000. × 96. × 13800. × 14.8 × 894. × 53500.</p>	<p>= Centipoise = Dyne-Second/Sq Centimeter = Dyne-Second/Sq Meter = Dyne-Second/Sq Inch = Dyne-Second/Sq Foot = Gram-Mass/Centimeter-Second = Gram-Mass/Centimeter-Minute = Gram-Mass/Centimeter-Hour</p>

CONVERSION FACTORS

<p>Pound-Mass/Foot-Second _____</p>	<p>× .0148 × 1.48 × 89.4 × 5350. × .151 × 14.8 × .334 × .000216 × .0311 × .5/036 × .000517</p>	<p>= Kilogram-Mass/Centimeter-Second = Kilogram-Mass/Meter-Second = Kilogram-Mass/Meter-Minute = Kilogram-Mass/Meter-Hour = Kilogram-Force-Second/Sq Meter = Poise = Pound-Force-Second/Sq Meter = Pound-Force-Second/Sq Inch = Pound-Force-Second/Sq Foot = Pound-Force-Minute/Sq Inch = Pound-Force-Minute/Sq Foot</p>
<p>Pound-Mass/Foot-Second _____</p>	<p>× .3/0328 × .0832 × .0196 × 5. × 60. × .116 × 300. × 3600. × .3/0328 × .0832 × 1.0 × .0196 × 5. × 60. × .116 × 300. × 3600.</p>	<p>= Pound-Mass/Centimeter-Second = Pound-Mass/Inch-Second = Pound-Mass/Centimeter-Minute = Pound-Mass/Inch-Minute = Pound-Mass/Foot-Minute = Pound-Mass/Centimeter-Hour = Pound-Mass/Inch-Hour = Pound-Mass/Foot-Hour = Poundal-Second/Sq Centimeter = Poundal-Second/Sq Inch = Poundal-Second/Sq Foot = Poundal-Minute/Sq Centimeter = Poundal-Minute/Sq Inch = Poundal-Minute/Sq Foot = Poundal-Hour/Sq Centimeter = Poundal-Hour/Sq Inch = Poundal-Hour/Sq Foot</p>
<p>Pound-Mass-Foot/Second Squared _____</p>	<p>× 1.0</p>	<p>= Pound-Force</p>
<p>Pound-Mass/Inch-Hour _____</p>	<p>× 4.96 × .0496 × 496. × .32 × 46.1 × .0496 × 2.98 × 178. × .4/0496 × .00496 × .298 × 17.8 × .3/0505 × .0496 × .2/0111 × .6/072 × .000103 × .7/012 × .5/0172</p>	<p>= Centipoise = Dyne-Second/Sq Centimeter = Dyne-Second/Sq Meter = Dyne-Second/Sq Inch = Dyne-Second/Sq Foot = Gram-Mass/Centimeter-Second = Gram-Mass/Centimeter-Minute = Gram-Mass/Centimeter-Hour = Kilogram-Mass/Centimeter-Second = Kilogram-Mass/Meter-Second = Kilogram-Mass/Meter-Minute = Kilogram-Mass/Meter-Hour = Kilogram-Force-Second/Sq Meter = Poise = Pound-Force-Second/Sq Meter = Pound-Force-Second/Sq Inch = Pound-Force-Second/Sq Foot = Pound-Force-Meter/Sq Inch = Pound-Force-Meter/Sq Foot</p>
<p>Pound-Mass/Inch-Hour _____</p>	<p>× .5/0109 × .3/0278 × .00333 × .4/0656 × .0167 × .2 × .000389 × 12. × .5/0109 × .3/0278 × .00333 × .4/0656 × .0167 × .2 × .000389 × 1.0 × 12. × 298.</p>	<p>= Pound-Mass/Centimeter-Second = Pound-Mass/Inch-Second = Pound-Mass/Foot-Second = Pound-Mass/Centimeter-Minute = Pound-Mass/Inch-Minute = Pound-Mass/Foot-Minute = Pound-Mass/Centimeter-Hour = Pound-Mass/Foot-Hour = Poundal-Second/Sq Centimeter = Poundal-Second/Sq Inch = Poundal-Second/Sq Foot = Poundal-Minute/Sq Centimeter = Poundal-Minute/Sq Inch = Poundal-Minute/Sq Foot = Poundal-Hour/Sq Centimeter = Poundal-Hour/Sq Inch = Poundal-Hour/Sq Foot = Centipoise</p>
<p>Pound-Mass/Inch-Minute _____</p>	<p>× 298.</p>	<p>= Centipoise</p>

<p>Pound-Mass/Inch-Minute _____</p>	<p>× 2.98 × 29800. × 19.2 × 2760. × 2.98 × 1.78 × 10700. × .00298 × .298 × 17.8 × 1070. × .0303 × 2.98 × .067 × .4/0432 × .00622 × .6/072 × .3/0103 × .4/0656</p>	<p>= Dyne-Second/Sq Centimeter = Dyne-Second/Sq Meter = Dyne-Second/Sq Inch = Dyne-Second/Sq Foot = Gram-Mass/Centimeter-Second = Gram-Mass/Centimeter-Minute = Gram-Mass/Centimeter-Hour = Kilogram-Mass/Centimeter-Second = Kilogram-Mass/Meter-Second = Kilogram-Mass/Meter-Minute = Kilogram-Mass/Meter-Hour = Kilogram-Force-Second/Sq Meter = Poise = Pound-Force-Second/Sq Meter = Pound-Force-Second/Sq Inch = Pound-Force-Second/Sq Foot = Pound-Force-Minute/Sq Inch = Pound-Force-Minute/Sq Foot = Pound-Mass/Centimeter-Second = Pound-Mass/Inch-Second = Pound-Mass/Foot-Second = Pound-Mass/Centimeter-Minute = Pound-Mass/Foot-Minute = Pound-Mass/Centimeter-Hour = Pound-Mass/Inch-Hour = Pound-Mass/Foot-Hour = Poundal-Second/Sq Centimeter = Poundal-Second/Sq Inch = Poundal-Second/Sq Foot = Poundal-Minute/Sq Centimeter = Poundal-Minute/Sq Inch = Poundal-Minute/Sq Foot = Poundal-Hour/Sq Centimeter = Poundal-Hour/Sq Inch = Poundal-Hour/Sq Foot = Centipoise = Dyne-Second/Sq Centimeter = Dyne-Second/Sq Meter = Dyne-Second/Sq Inch = Dyne-Second/Sq Foot = Gram-Mass/Centimeter-Second = Gram-Mass/Centimeter-Minute = Gram-Mass/Centimeter-Hour = Kilogram-Mass/Centimeter-Second = Kilogram-Mass/Meter-Second = Kilogram-Mass/Meter-Minute = Kilogram-Mass/Meter-Hour = Kilogram-Force-Second/Sq Meter = Poise = Pound-Force-Second/Sq Meter = Pound-Force-Second/Sq Inch = Pound-Force-Second/Sq Foot = Pound-Force-Minute/Sq Inch = Pound-Force-Minute/Sq Foot = Pound-Mass/Centimeter-Second = Pound-Mass/Foot-Second = Pound-Mass/Centimeter-Minute = Pound-Mass/Inch-Minute = Pound-Mass/Foot-Minute = Pound-Mass/Centimeter-Hour = Pound-Mass/Inch-Hour = Pound-Mass/Foot-Hour = Poundal-Second/Sq Centimeter = Poundal-Second/Sq Inch = Poundal-Second/Sq Foot = Poundal-Minute/Sq Centimeter</p>
<p>Pound-Mass/Inch-Minute _____</p>	<p>× .0166 × .2 × .00393 × 12. × .0233 × 60. × 720. × .4/0656 × .0166 × .2 × .00393 × 1.0 × 12. × .0233 × 60. × 720.</p>	<p>= Pound-Mass/Inch-Second = Pound-Mass/Foot-Second = Pound-Mass/Centimeter-Minute = Pound-Mass/Foot-Minute = Pound-Mass/Centimeter-Hour = Pound-Mass/Inch-Hour = Pound-Mass/Foot-Hour = Poundal-Second/Sq Centimeter = Poundal-Second/Sq Inch = Poundal-Second/Sq Foot = Poundal-Minute/Sq Centimeter = Poundal-Minute/Sq Inch = Poundal-Minute/Sq Foot = Poundal-Hour/Sq Centimeter = Poundal-Hour/Sq Inch = Poundal-Hour/Sq Foot = Centipoise = Dyne-Second/Sq Centimeter = Dyne-Second/Sq Meter = Dyne-Second/Sq Inch = Dyne-Second/Sq Foot = Gram-Mass/Centimeter-Second = Gram-Mass/Centimeter-Minute = Gram-Mass/Centimeter-Hour = Kilogram-Mass/Centimeter-Second = Kilogram-Mass/Meter-Second = Kilogram-Mass/Meter-Minute = Kilogram-Mass/Meter-Hour = Kilogram-Force-Second/Sq Meter = Poise = Pound-Force-Second/Sq Meter = Pound-Force-Second/Sq Inch = Pound-Force-Second/Sq Foot = Pound-Force-Minute/Sq Inch = Pound-Force-Minute/Sq Foot = Pound-Mass/Centimeter-Second = Pound-Mass/Foot-Second = Pound-Mass/Centimeter-Minute = Pound-Mass/Inch-Minute = Pound-Mass/Foot-Minute = Pound-Mass/Centimeter-Hour = Pound-Mass/Inch-Hour = Pound-Mass/Foot-Hour = Poundal-Second/Sq Centimeter = Poundal-Second/Sq Inch = Poundal-Second/Sq Foot = Poundal-Minute/Sq Centimeter</p>
<p>Pound-Mass/Inch-Second _____</p>	<p>× 17800. × 178. × 1780000. × 1150. × 166000. × 178. × 10700. × 643000. × .178 × 17.8 × 1070. × 64300. × 1.82 × 178. × 4.01 × .00259 × .373 × .4/043 × .0062 × .00394</p>	<p>= Centipoise = Dyne-Second/Sq Centimeter = Dyne-Second/Sq Meter = Dyne-Second/Sq Inch = Dyne-Second/Sq Foot = Gram-Mass/Centimeter-Second = Gram-Mass/Centimeter-Minute = Gram-Mass/Centimeter-Hour = Kilogram-Mass/Centimeter-Second = Kilogram-Mass/Meter-Second = Kilogram-Mass/Meter-Minute = Kilogram-Mass/Meter-Hour = Kilogram-Force-Second/Sq Meter = Poise = Pound-Force-Second/Sq Meter = Pound-Force-Second/Sq Inch = Pound-Force-Second/Sq Foot = Pound-Force-Minute/Sq Inch = Pound-Force-Minute/Sq Foot = Pound-Mass/Centimeter-Second = Pound-Mass/Foot-Second = Pound-Mass/Centimeter-Minute = Pound-Mass/Inch-Minute = Pound-Mass/Foot-Minute = Pound-Mass/Centimeter-Hour = Pound-Mass/Inch-Hour = Pound-Mass/Foot-Hour = Poundal-Second/Sq Centimeter = Poundal-Second/Sq Inch = Poundal-Second/Sq Foot = Poundal-Minute/Sq Centimeter</p>
<p>Pound-Mass/Inch-Second _____</p>	<p>× 12. × .236 × 60. × 720. × 1.4 × 3600. × 4325. × .00394 × 1.0 × 12. × .236</p>	<p>= Pound-Mass/Centimeter-Second = Pound-Mass/Foot-Second = Pound-Mass/Centimeter-Minute = Pound-Mass/Inch-Minute = Pound-Mass/Foot-Minute = Pound-Mass/Centimeter-Hour = Pound-Mass/Inch-Hour = Pound-Mass/Foot-Hour = Poundal-Second/Sq Centimeter = Poundal-Second/Sq Inch = Poundal-Second/Sq Foot = Poundal-Minute/Sq Centimeter</p>

P CONVERSION FACTORS

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	= Dyns/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

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
	× 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 Propagation 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

CONVERSION FACTORS

P

Protactinium: (Pa): #91:231.00 AW:		
Pulley: Belted: Driven Pulley Diameter _____	× Speed Ratio	= Driven Pulley Diameter
Driver Pulley 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 _____	× .4/017	= 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
	× 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

Q

Q

CONVERSION FACTORS

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

CONVERSION FACTORS

R

<p>Radian _____</p> <p>Radian/Second _____</p> <p>Radian/Second/Second _____</p> <p>Radiation Factor 0-200C _____</p> <p>Radiation: Hot Air: Total Pipe Area _____</p> <p style="padding-left: 20px;">In Watts/Sqin Cast Iron Surface _____</p> <p style="padding-left: 20px;">In Watts/Sqin Steel Surface _____</p> <p style="padding-left: 20px;">In Watts/Sqin Surface = .10/0368 (Emissivity) (Hot Body °K⁴ - Ambientor Wall °K⁴) _____</p> <p>Radio-Phonograph: _____</p> <p>Radium: (Ra): #88:226.05 AW: _____</p> <p>Radon: (Rn): #86:222. AW: _____</p> <p>Rainfall (20-30" Annual): (Annual Inch _____</p> <p style="padding-left: 20px;">(30-50" Annual): (Annual Inch _____</p> <p>Range: 1 Casing: Joint _____</p> <p style="padding-left: 20px;">2 Casing: Joint _____</p> <p style="padding-left: 20px;">3 Casing: Joint _____</p> <p style="padding-left: 20px;">1 Tubing: Joint _____</p> <p style="padding-left: 20px;">2 Tubing: Joint _____</p> <p>Rankine Degree _____</p> <p>Rate _____</p> <p>Rate × Principal _____</p> <p style="padding-left: 20px;">× Principal × Time _____</p> <p>Ream: _____</p> <p>Ream: Long _____</p> <p style="padding-left: 20px;">Perfect _____</p> <p>Reaumur Degree _____</p> <p style="padding-left: 20px;">× 1.25 _____</p> <p>Rectangle: Height _____</p> <p>Rectangular Tank: L × W × D in Feet _____</p> <p style="padding-left: 20px;">L × W × D in Inch _____</p> <p>Red _____</p> <p>Red Oil (Min. Seal Spg. .827-70F): Inch _____</p> <p>Refrigeration: Btu Heat Load × Hrs Operated _____</p> <p style="padding-left: 20px;">Cold Storage: Men Working _____</p> <p style="padding-left: 20px;">Horsepower _____</p> <p style="padding-left: 20px;">Up to .5 HP Motor in Stg Space _____</p> <p style="padding-left: 20px;">.5 to 3 HP Motor in Stg Space _____</p> <p style="padding-left: 20px;">Over 3 HP Motor in Stg Space _____</p> <p style="padding-left: 20px;">Performance Coeff _____</p> <p>Refrigeration Ton _____</p> <p style="padding-left: 20px;">= 144 Btu/Pound _____</p> <p style="padding-left: 20px;">Standard _____</p> <p style="padding-left: 20px;">Commercial _____</p>	<p>× .159155 = Circumference</p> <p>× 57.2957795131 = Decimal Degree</p> <p>× 57°17'44.8" = Degree-Minute-Second</p> <p>× 63.662 = Grade</p> <p>× 206265. = Inch</p> <p>× 3437.75 = Minute</p> <p>× .159155 = Revolution</p> <p>× .636619 = Quadrant</p> <p>× 206265. = Second</p> <p>× 57.29 = Degree/Second</p> <p>× 9.549 = Revolution/Minute</p> <p>× .159155 = Revolution/Second</p> <p>× 573. = Revolution/Minute/Minute</p> <p>× 9.549 = Revolution/Minute/Second</p> <p>× .1592 = Revolution/Second/Second</p> <p>= 1.0 = Emissivity 0-200C (See)</p> <p>× .5416 = Steam Radiation Surface</p> <p>= .8/092 (Hot Body °K⁴ - Ambientor Wall °K⁴)</p> <p>= .7/02576 (Hot Body °K⁴ - Ambientor Wall °K⁴)</p> <p>= 175 = Watt Avg Use</p> <p>× .25) - 3.5 = Inch Runoff (20-100 SqMi)</p> <p>× .6) - 12.5 = Inch Runoff (20-100 SqMi)</p> <p>× 23.0 = Feet Average Length</p> <p>× 30.0 = Feet Average Length</p> <p>× 38.0 = Feet Average Length</p> <p>× 21.5 = Feet Average Length</p> <p>× 31.5 = Feet Average Length</p> <p>- 459.69 = Fahrenheit Degree</p> <p>× 1.8 = Kelvin Degree</p> <p>× Time = Distance</p> <p>× Time = Interest</p> <p>+ Principal = Amount</p> <p>× 20. = Quire</p> <p>× 480. = Sheet</p> <p>× 500. = Sheet</p> <p>× 516. = Sheet</p> <p>× 1.25 = Centigrade Degree</p> <p>+ 273.16 = Kelvin Degree</p> <p>× Base = Area</p> <p>× .1781 = Barrel (42)</p> <p>× 1.0 = Cubic Feet</p> <p>× 7.4805 = Gallon Liquid US</p> <p>× .0001031 = Barrel (42)</p> <p>× .000579 = Cubic Feet</p> <p>× .00433 = Gallon Liquid US</p> <p>= 7000. = Angstrom</p> <p>= 27.5 = Micro-Inch</p> <p>× .0609 = Inch Height Mercury 70F</p> <p>× .827 = Inch Height Water 70F</p> <p>× .4788 = Ounce/Square Inch</p> <p>× .0298 = Pound/Square Inch</p> <p>× .5/034722 = Total Short Ton Load</p> <p>= 600 to 1000 = Btu/Hr/Person</p> <p>× 42.4 = Btu/Minute</p> <p>= 4250. = Btu/Hr/HP</p> <p>= 3700. = Btu/Hr/HP</p> <p>= 2950. = Btu/Hr/HP</p> <p>× HP/Ton = 4.71</p> <p>× 1.0 = Refrigeration Short Ton</p> <p>× 2000. = 288000 Btu/Short Ton</p> <p>× 288000. = Btu</p> <p>× 200. = Btu/Minute</p> <p>× 288000. = Btu/Day</p>
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R CONVERSION FACTORS

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(5/0).	= 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

CONVERSION FACTORS

R

<p>Rod _____</p>	<p>× .025 × 198. × .005029 × 25. × 5.02921 × .002714 × .003125 × 1.0 × 5.5</p>	<p>= Furlong = Inch = Kilometer = Link = Meter = Mile Nautical US = Mile Statute US = Perch-Pole = Yard US</p>
<p>Roentgen (Ionizing Power) _____</p>	<p>× 83.8</p>	<p>= Erg Absorbed/Gram of Air</p>
<p>Road _____</p>	<p>× .25 × 2.5 × 10.117 × 10890. × 1568160. × 1012. × .0003906 × 40. × 1210.</p>	<p>= Acre = Square Chain Gunter = Square Dekameter = Square Feet = Square Inch = Square Meter = Square Mile = Square Perch or Rod = Square Yard</p>
<p>Roofing: Asbestos: Number of Plies _____</p>	<p>× .005 × .006 × .2 × .9</p>	<p>= Labor-Hr/Sqft (Summer) = Labor-Hr/Sqft (Winter) = Pound Asbestos Felt/Sqft</p>
<p style="padding-left: 40px;">Square Foot _____</p>	<p>× .9</p>	<p>= Pound Asphalt</p>
<p>Asphalt: Number of Plies _____</p>	<p>× .3 × .25</p>	<p>= Pound Asphalt/Sqft = Pound Felt/Square Foot</p>
<p style="padding-left: 40px;">Concrete Deck: Sqft _____</p>	<p>× .1</p>	<p>= Pound Asphalt Primer</p>
<p>Promenade Tile: Square Feet _____</p>	<p>× .08 × 3. × .1</p>	<p>= Labor-Hour = Pound Composition = Roofer-Hour</p>
<p>Slate: Square Feet _____</p>	<p>× .02 × .025 to .035 × .054 to .064 × .02 to .03</p>	<p>= Helper-Hour = Slater-Hr (Curved Area) = Slater-Hr (Hip-Valley) = Slater-Hr (Straight Roof)</p>
<p style="padding-left: 40px;">Tar-Gravel or Asphalt: Plies _____</p>	<p>× .005 × .006</p>	<p>= Labor-Hr/Sqft (Summer) = Labor-Hr/Sqft (Winter)</p>
<p style="padding-left: 40px;">Tar-Gravel: Number of Plies _____</p>	<p>× .15 × .3 × 4.0</p>	<p>= Pound Felt/Square Foot = Pound Tar/Square Foot = Pound Gravel</p>
<p style="padding-left: 40px;">Square Feet _____</p>	<p>× 4.0</p>	<p>= Pound Rosin Paper</p>
<p style="padding-left: 40px;">Wood Deck: Sqft _____</p>	<p>× .05</p>	<p>= Feet</p>
<p>Rope: _____</p>	<p>× 20. × 6.0960</p>	<p>= Meter = Pound Safe Tensile Strength</p>
<p style="padding-left: 20px;">Manila: Pounds Load to be Lifted _____</p>	<p>× 5.</p>	<p>= Pound Tensile</p>
<p style="padding-left: 40px;">1/4" Dia. (3/4" Cir)(60'/#) _____</p>	<p>= 600.</p>	<p>= Pound Tensile</p>
<p style="padding-left: 40px;">3/8" Dia. (1-1/8" Cir)(26.7'/#) _____</p>	<p>= 1350.</p>	<p>= Pound Tensile</p>
<p style="padding-left: 40px;">1/2" Dia. (1-1/2" Cir)(15'/#) _____</p>	<p>= 2650.</p>	<p>= Pound Tensile</p>
<p style="padding-left: 40px;">3/4" Dia. (2-1/4" Cir)(6.6'/#) _____</p>	<p>= 5400.</p>	<p>= Pound Tensile</p>
<p style="padding-left: 40px;">Pound Pull × Number Sheaves × (.86</p>	<p>× Each Sheave)</p>	<p>= Pound Load to Lift</p>
<p>Rope: 6×7 Wire: (Diameter in Inch _____)</p>	<p>× 2.38) - .8 × 10.4) - 3.4</p>	<p>= Pound/Foot = Short Ton Work Load</p>
<p style="padding-left: 40px;">6 × 19 Wire: (Diameter in Inch _____)</p>	<p>× 2.78) - 1.12 × 11.6) - 4.45</p>	<p>= Pound/Foot = Short Ton Work Load</p>
<p>Rope Slings: Lb Safe Load × Safety Factor _____</p>	<p>= 2.</p>	<p>× psi Tensile × Sine of Angle</p>
<p>Rotl _____</p>	<p>× 7.</p>	<p>= Foot US</p>
<p>Rubber: Specific Heat _____</p>	<p>= .48</p>	<p>= Btu/Pound/°F</p>
<p>Rubidium: (Rb): #37:85.48 AW:</p>	<p></p>	<p></p>
<p>Run _____</p>	<p>× 1600.</p>	<p>= Yard/Pound Avoir</p>
<p>Ruthenium: (Ru): #44:101.7 AW:</p>	<p></p>	<p></p>
<p>Sabin _____</p>	<p>× 1.0 × 1.0</p>	<p>= Sound Absorption Unit-Total = Sqft Total Absorbing Surface</p>
<p>Sabin = Absorption Coeff. of Accoustical Material _____</p>	<p>× 20.</p>	<p>× Room Area Sqft</p>
<p>Sabin × Seconds Reverberation _____</p>	<p>× 3.0 × 3.0</p>	<p>= Cuft (Room Size) = Bushel US Std Struck</p>
<p>Sack _____</p>	<p>× 3.0</p>	<p>= Bushel Imperial</p>
<p>Sack British _____</p>	<p>× .10911</p>	<p>= Cubic Meter</p>
<p>Sagene _____</p>	<p>× 7.</p>	<p>= Foot US</p>

S

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	= Cubic Yard
Diam Inch Squared × Ft Hole Filled _____	× .0002022	= Ton Long (Support)
Square Foot _____	× 2 to 4	= Ton Long
Pit: Dry: Cubic Foot _____	× .0455	= Ton Long
River: Dry: Cubic Foot _____	× .0476	= Btu/Pound/°F
Specific Heat _____	= .20	= Average Specific Gravity
Wet: _____	= 1.89 to 2.07	= Degree Natural Slope
	= 22.	= Pound
Cubic Foot _____	× 118 to 129	= Man-Hr (Plain Hardwood)
Standing Interior Finishes: Square _____	× 1.25	= Man-Hr.(Plain Softwood)
	× 1.0	= Man-Hr (Molded Hardwood)
	× 1.5	= Man-Hr (Molded Softwood)
	× 1.25	= Hundredweight
Sandstone: Cubic Yard _____	× 39 to 44	= Pound
Building Stone: Cubic Foot _____	× 164.	= Cubic Feet
Ton _____	× 12.2	= Arshin
Sashen _____	× 3.0	= Feet US
	× 7.0	= Meter
	× 2.1336	= Tchetvert
	× 12.0	= Vershok
	× 48.0	= Liter
Saum _____	× 150.	= Maass
	× 100.	= Inch Pulley Diameter
Saw Blade Thickness Should Be _____	.001	= Pound
Sawdust: Cubic Foot _____	× 13.	= Saybolt-Universal Second
Saybolt-Furol Second _____	(See pg. 163)	= Centistoke
Saybolt Universal Second _____	(See pg. 163)	= Engler Degree @ 100F
@ 100F _____	× .0285	= Kinematic Centistoke @ 100F
	× .2165	= Redwood #1 Seconds @ 100F
	× .8773	= Saybolt-Furol Second
	× .10	= Board-Foot/Foot High
Scaffolds: Covered Area in Square Feet _____	× .033	= Plank Board-Feet
Covered Floor Area in Sqft _____	× 2.	= Salvable Lumber
Dismantling: _____	= 50%	= Labor-Hour
Board-Feet _____	× .003	= Carpenter-Hour
Erecting: Board-Feet _____	× .016	
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)

CONVERSION FACTORS

S

<p>Second (sec) _____</p> <p>Second × Volt _____</p> <p style="padding-left: 20px;">× Volt _____</p> <p style="padding-left: 20px;">× Volt _____</p> <p style="padding-left: 20px;">× Watt _____</p> <p>Second-Foot _____</p> <p>Second-Foot/Day _____</p> <p>Second-Foot/Year _____</p> <p>Second Mean Solar _____</p> <p>Second/Milligram _____</p> <p>Second of Longitude _____</p> <p>Seconds in Arc × Radius _____</p> <p>Second Squared _____</p> <p>Second Squared × Pound-Force _____</p> <p style="padding-left: 40px;">× Pound-Force × SpHt Btu/lb-°F × Second Squared = Btu × Foot</p> <p>Section _____</p> <p>Sector: Circle: Angle Radians _____</p> <p style="padding-left: 20px;">Arc Length × Radius _____</p> <p style="padding-left: 20px;">Part of Circle Between Arc and Two Radii.</p> <p style="padding-left: 20px;">Radius × Angle Degree _____</p> <p style="padding-left: 20px;">Radius Squared × Angle Degree _____</p> <p style="padding-left: 20px;">Radius Squared × Angle Radian _____</p> <p style="padding-left: 20px;">Sin (.5 Angle Degree) × Radius _____</p> <p style="padding-left: 20px;">Sin (.5 Angle Radian) × Radius _____</p> <p style="padding-left: 20px;">Sq Root of (Diameter _____</p> <p style="padding-left: 20px;">Sq Root of Rise × (Diameter - Rise) _____</p> <p style="padding-left: 20px;">Sq Root of (Radius Squared - .25 _____</p> <p>Sector: Semicircle: Radius Squared _____</p> <p>Sector: Sphere: Cone Area _____</p> <p style="padding-left: 20px;">Radius × Cap Area _____</p> <p style="padding-left: 20px;">Radius Squared × Arc Height _____</p>	<p>× .6/07716 = Circle-Revolution</p> <p>× Ampere = Coulomb</p> <p>× .4/01157407 = Day</p> <p>× .0002778 = Degree</p> <p>× .00031 = Grade</p> <p>× .0002777 = Hour</p> <p>× Watt = Joule</p> <p>× 1(8/0). = Line/Volt</p> <p>× .01666 = Minute</p> <p>× .6/03805 = Month (1/12 Year)</p> <p>× .5/03087 = Quadrant</p> <p>× .5/0484814 = Radian</p> <p>× .7/0317 = Year</p> <p>× Ampere = Joule</p> <p>× 1(8/0). = Line</p> <p>× Ampere = Watt-Second</p> <p>× 1(7/0). = Dyne-Centimeter or Erg</p> <p>× 1.98347 = Acre-Feet</p> <p>× 1.0 = Acre-Inch/Hour</p> <p>× 86400. = Cubic Feet/Day</p> <p>× 1.0 = Cubic Foot/Second</p> <p>× 6.23 = Gallon British/Second</p> <p>× 646272. = Gallon Liquid US/Day</p> <p>× 448.8 = Gallon Liquid US/Minute</p> <p>× 7.4805194 = Gallon Liq US/Second/Day</p> <p>× .1136 = Horsepower/Falling Foot</p> <p>× 448.83116 = Minute-Gallon</p> <p>× 40. = Miner-Inch (Ariz-Calif)</p> <p>× 38.4 = Miner-Inch(Colorado)</p> <p>× 646316.8762 = Gallon/Day</p> <p>× 31536000. = Cubic Feet</p> <p>× 1.13 = Feet Deep/Square Mile</p> <p>× 13.57 = Inch Deep/Square Mile</p> <p>× 1.00273791 = Sidereal Second</p> <p>× 11.57407 = Day/Kilogram</p> <p>× .36 = Day/Ounce Apoth-Troy</p> <p>× 5.24991 = Day/Pound Avoir</p> <p>× .27778 = Hour/Gram</p> <p>× 8.63986 = Hour/Ounce Apoth-Troy</p> <p>× 7.87487 = Hour/Ounce Avoir</p> <p>× 125.99790 = Hour/Pound Avoir</p> <p>× .98563 = Year/Kilo-Ounce Apoth-Troy</p> <p>× 31.68877 = Year/Ton Metric</p> <p>× 26.74767 = Year/Ton Short Avoir</p> <p>× .06666 = Second of Time</p> <p>× .5/0484814 = Length of Arc</p> <p>× Dyne = Gram-Centimeter Mass</p> <p>× 640. = Pound-Force Density × Foot Fourth Power</p> <p>× 1. = Acre</p> <p>× 1. = Square Mile</p> <p>× .5 = Arc Length</p> <p>× .0174532 = Arc Length</p> <p>× .008722419 = Area</p> <p>× .5 = Area</p> <p>× 2. = Sector Chord</p> <p>× 2. = Sector Chord</p> <p>× Rise) = Chord of Half of Arc</p> <p>× 2 = Chord</p> <p>Chord Squared) - Radius = Rise</p> <p>× 1.5707 = Area</p> <p>+ Cap Area = Total Area</p> <p>× .3333 = Volume</p> <p>× 2.0943951 = Volume</p>
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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 × π × Radius _____	- 1.047 × Hgt _____	= Volume
Selenium: (Se): #34:78.96 AW:		
Semicircle: Radius _____	× 3.1416 _____	= Length
Seven-Gram _____	= 1(7/0).	= Gram
Sextillion _____	= 1(21/0).	= 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) _____	× 21"/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:		

CONVERSION FACTORS

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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 Worsteds
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
+ Hydrochloric 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)

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
	× 1.94	= Ratio of Density to Water
Specific Gravity × Weight Equal Volume Water		= Slug/Cubic Foot
× Weight of Displaced Water		= Weight of Substance
Specific Gravity Oil @ 60F _____	× Centistoke	= Weight of Solid
Specific Heat: Btu/Lb-°F × Pound-Force × °F _____	× Second Squared	= Centipoise
× Fahrenheit Degree _____	× Pound-Mass	= Btu × Foot
Constant _____	× Pound-Mass-°F	= Btu
Of Solid Element _____	× Atomic Weight	= Pound-Force
Of Solid Element × Atomic Weight _____	× .16129	= 6.2 (Approx.)
Unit _____		= 1.0
		= 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

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<p>Spruce: Weight of 1 Sqin x 1 Ft _____ = .18750</p> <p>Spyndle (Jute) _____ x 14400.</p> <p>Squad _____ x 8.</p> <p>Square _____ x 100.</p> <p>Square: Diagonal Squared _____ x .5</p> <p style="padding-left: 20px;">Side _____ x 1.414</p> <p style="padding-left: 20px;">Side Squared _____ x 1.</p> <p>Square Acre _____ = 208.7103</p> <p>Square Centimeter (sqcm) _____ x .7/02471</p>	<p>= Pound</p> <p>= Yard/Pound Avoir</p> <p>= Men</p> <p>= Square Feet (Bldg Trades)</p> <p>= Area</p> <p>= Diagonal Length</p> <p>= Area</p> <p>= Feet on Each Side</p> <p>= Acre</p> <p>= Circular Centimeter</p> <p>= Circular Inch</p> <p>= Circular Millimeter</p> <p>= Circular Mil</p> <p>= Hectare</p> <p>= Square Chain Gunter</p> <p>= Square Decimeter</p> <p>= Square Foot</p> <p>= Square Inch</p> <p>= Square Link</p> <p>= Square Meter</p> <p>= Square Mil</p> <p>= Square Mile</p> <p>= Square Millimeter</p> <p>= Square Rod</p> <p>= Square Yard</p>
<p>Square Chain Engineer _____ x .2296</p>	<p>= Acre</p> <p>= Are</p> <p>= Circular Foot</p> <p>= Circular Inch</p> <p>= Hectare</p> <p>= Rood</p> <p>= Square Centimeter</p> <p>= Square Chain Gunter</p> <p>= Square Decimeter</p> <p>= Square Foot British</p> <p>= Square Inch</p> <p>= Square Kilometer</p> <p>= Square Meter</p> <p>= Square Mile Statute US</p> <p>= Square Millimeter</p> <p>= Square Rod</p> <p>= Square Vara</p> <p>= Square Yard</p> <p>= Square Foot US</p>
<p>Square Chain Gunter _____ x .1009</p>	<p>= Acre</p> <p>= Are</p> <p>= Rood</p> <p>= Section</p> <p>= Square Centimeter</p> <p>= Square Feet</p> <p>= Square Inch</p> <p>= Square Link</p> <p>= Square Meter</p> <p>= Square Mile Statute US</p> <p>= Square Millimeter</p> <p>= Square Perch</p> <p>= Square Pole</p> <p>= Square Rod</p> <p>= Square Yard</p> <p>= Square Rod</p> <p>= Square Centimeter</p> <p>= Square Foot</p> <p>= Square Inch</p> <p>= Square Meter</p> <p>= Square Yard</p> <p>= Square Foot US</p>
<p>Square Decameter (sqdkm) _____ x 3.954</p> <p>Square Decimeter (sqdm) _____ x 100.</p>	<p>= Square Rod</p> <p>= Square Centimeter</p> <p>= Square Foot</p> <p>= Square Inch</p> <p>= Square Meter</p> <p>= Square Yard</p>
<p>Square Foot British _____ x .99999419</p>	<p>= Square Foot US</p>

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Square Foot British _____	× .0929029	= Square Meter
Square Foot US (Sqft) _____	× .4/02296	= Acre
	× .000929	= Are
	× 1.27324	= Circular Foot
	× 183.346	= Circular Inch
	× .5/0929034	= Hectare
	× .4/09184	= Rood
	× 929.0341	= Square Centimeter
	× .0002296	= Square Chain Gunter
	× 9.29034	= Square Decimeter
	× 1.0000057	= Square Foot British
	× 144.	= Square Inch
	× .7/0929034	= Square Kilometer
	× 2.2956	= Square Link
	× .0929034	= Square Meter
	× .7/03587	= 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) _____	× .6/01594	= Acre
	× 1.2732	= Circular Inch
	× 1273239.	= Circular Mil
	× .7/06451	= Hectare
	× .6/06377	= Rood
	× 6.451626	= Square Centimeter
	× .5/01594	= Square Chain Gunter
	× .064516	= Square Decimeter
	× .006944	= Square Foot
	× .9/06451	= Square Kilometer
	× .0159432	= Square Link
	× .0006451	= Square Meter
	× 1(6/0).	= Square Mil
	× .9/02491	= Square Mile Statute US
	× 645.16	= Square Millimeter
	× .4/02551	= Square Rod
	× .0007716	= Square Yard
Square Kilometer (sqkm) _____	× 247.104	= Acre
	× 100.	= Hectare
	× 10763845.488	= Square Feet
	× 1(6/0).	= Square Meter
	× .3861006	= Square Mile Statute US
	× 39536.622	= Square Rod
	× 1195982.83	= Square Yard
Square Link Gunter _____	× .4/01	= Acre
	× .5/04047	= Hectare
	× 404.6873	= Square Centimeter
	× .0001	= Square Chain Gunter
	× .4356	= Square Foot
	× 62.7264	= Square Inch
	× .04046873	= Square Meter
	× .7/015625	= 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
	× .5/01	= Square Kilometer

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Square Meter (sqm) _____	× 24.7104 × .6/03861 × 1(6/0). × .039537 × 1.19599 × 1.27324	= Square Link = Square Mile Statute US = Square Millimeter = Square Rod = Square Yard = Circular Mil
Square Mil _____	× .5/064516258 × .5/01 × .00064516 × 640. × 258.9998 × 2560. × 259(8/0). × 6400. × 27878400. × 4014489600. × 2.589998 × 64(6/0). × 2589998. × 259(10/0). × 102400. × 3097600.	= Square Centimeter = Square Inch = Square Millimeter = Acre = Hectare = Rood = Square Centimeter = Square Chain Gunter = Square Feet = Square Inch = Square Kilometer = Square Link = Square Meter = Square Millimeter = Square Rod = Square Yard
Square Mile (sqmi) _____	× 1973.5 × .00155 × .01 × .00155 × .00625 × .2529 × .002529 × .025 × 252930. × .0625 × .2529 × 272.25 × 39204. × .4/02529 × 625. × 25.29295 × .5/09766 × 25293000. × 30.25	= Circular Mil = Circular Inch = Square Centimeter = Square Inch = Acre = Are = Hectare = Rood = Square Centimeter = Square Chain Gunter = Square Dekameter = Square Feet = Square Inch = Square Kilometer = Square Link = Square Meter = Square Mile Statute US = Square Millimeter = Square Yard
Square Millimeter (sqmm) _____	× .00625 × .2529 × .002529 × .025 × 252930. × .0625 × .2529 × 272.25 × 39204. × .4/02529 × 625. × 25.29295 × .5/09766 × 25293000. × 30.25	= Acre = Are = Hectare = Rood = Square Centimeter = Square Chain Gunter = Square Dekameter = Square Feet = Square Inch = Square Kilometer = Square Link = Square Meter = Square Mile Statute US = Square Millimeter = Square Yard
Square Perch _____	× .00625 × .2529 × .002529 × .025 × 252930. × .0625 × .2529 × 272.25 × 39204. × .4/02529 × 625. × 25.29295 × .5/09766 × 25293000. × 30.25	= Acre = Are = Hectare = Rood = Square Centimeter = Square Chain Gunter = Square Dekameter = Square Feet = Square Inch = Square Kilometer = Square Link = Square Meter = Square Mile Statute US = Square Millimeter = Square Yard
Square Pole _____	× .00625 × .2529 × .002529 × .025 × 252930. × .0625 × .2529 × 272.25 × 39204. × .4/02529 × 625. × 25.29295 × .5/09766 × 25293000. × 30.25	= Acre = Are = Hectare = Rood = Square Centimeter = Square Chain Gunter = Square Dekameter = Square Feet = Square Inch = Square Kilometer = Square Link = Square Meter = Square Mile Statute US = Square Millimeter = Square Yard
Square Rod _____	× .00625 × .2529 × .002529 × .025 × 252930. × .0625 × .2529 × 272.25 × 39204. × .4/02529	= Acre = Are = Hectare = Rood = Square Centimeter = Square Chain Gunter = Square Dekameter = Square Feet = Square Inch = Square Kilometer

Square Rod _____	× 625.	= Square Link
	× 25.29295	= Square Meter
	× .5/09766	= Square Mile Statute US
	× 25293000.	= Square Millimeter
	× 30.25	= Square Yard
Square Vara _____	× 7.716	= Square Feet
Square Yard (sqyd) _____	× .000206612	= Acre
	× .4/08361	= Hectare
	× .0008264	= Rood
	× 8361.307	= Square Centimeter
	× .002066	= Square Chain Gunter
	× 9.	= Square Feet
	× 1296.	= Square Inch
	× .6/08361307	= Square Kilometer
	× .836131	= Square Meter
	× .6/03228	= 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 _____	× .10/033358	= Abampere
	× .9/0333585	= Ampere
Statampere/Square Centimeter _____	× .10/03335	= Abampere/Sq Centimeter
	× .9/03335	= Ampere/Sq Centimeter
	× .8/02151	= Ampere/Sq Inch
	× .5/03335	= Ampere/Sq Meter
Statcoulomb _____	× .10/033358	= Abcoulomb
	× .13/092663	= Ampere-Hour
	× .9/0333585	= Coulomb
	= 1.0	= Electric Charge Unit
	× .14/034571	= Faraday
Statcoulomb/Square Centimeter _____	× .10/03335	= Abcoulomb/Sq Centimeter
	× .9/03335	= Coulomb/Sq Centimeter
	× .8/02151	= Coulomb/Sq Inch
	× .5/03335	= Coulomb/Sq Meter
Statfarad _____	× .20/011127	= Abfarad
	× .11/0111279	= Farad
	× .5/01112	= Microfarad
Stathenry _____	× 898645(15/0).	= Abhenry
	× 898645(6/0).	= Henry
	× 898645(12/0).	= Microhenry
	× 898645(9/0).	= Millihenry
Statmho _____	× .11/0111279	= Moh
Statoersted _____	× 1.	= Esu(Magnetizing Force)
	× .10/0333585	= Oersted
Statohm _____	× 898645(15/0).	= Abohm
	× 898645.	= Megohm
	× 898645(12/0).	= Microhm
	× 898645(6/0).	= Ohm
Statvolt _____	× 299774(5/0).	= Abvolt
	× 299774(3/0).	= Microvolt
	× 299774.	= Millivolt
	× 299.774	= Volt
Statvolt/Centimeter _____	× 299774(5/0).	= Abvolt/Centimeter
	× .2998	= Kilovolt/Centimeter
	× 299774(5/0).	= 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(5/0).	= Maxwell

CONVERSION FACTORS

S

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 _____	× .7/0333	= Inch Stretched
Medium: Linear Expansion: Inch _____	× 12.0	= Micro-Inch/°C
	× 6.7	= Micro-Inch/°F
Modulus Elasticity _____	= 3(7/0).	= 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 × .8/022 _____	+ .5/061	= 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(8/0).	= Dyne
Stilb (sb) _____	× 1.0	= Candle/Square Centimeter
	× 6.4516	= Candle/Square Inch
	× 2919.	= Foot-Lambert
	× 3.1416	= Lambert

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
	× 100.	= Pound (Spg 1.6)
Stone: Crushed: Cubic Foot _____	× 100.	= Man-Hour/Cubic Foot
Cut: Handling: Car to Truck _____	= .04	= Man-Hour/Cubic Foot
Truck to Pile _____	= .04	= Man-Hour/100' Wheeled
Wheeling _____	= .03	= Laborer-Hour/Cubic Foot
Handwork: Setting Ashler _____	= .2	= 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

CONVERSION FACTORS

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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	× .4/043	= 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 × .4/0158	= HP
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) _____	× 21"/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

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CONVERSION FACTORS

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
× Inch High _____	× 452.389248	= Sqin Lateral Area
_____	× .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 _____	× .4/08095195	= 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

CONVERSION FACTORS

T

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
	+ 32	= Fahrenheit Degree
	× 1.25	= Kelvin Degree
	+ 273.16	= Pound: Max Test Load
Tensile Strength: psi × sqin Cross-Section Area		
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(5/9).	= 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

CONVERSION FACTORS

T

Tonde _____	× 1.36	= Acre	
Ton Displacement _____	× 1.0	= Displacement Ton	
	× 35.	= Cubic Foot	
Ton Long _____	× 1.0	= Long Ton Weight of Sea Water	
	× 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		
Ton Long/Cubic Yard _____	× 1.12	= Ton Net	
	× 1.12	= Ton Short	
	× 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	
Ton Long-Mile Crushed Rock _____	× 1.12	= Ton Short-Mile	
	× .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	
	× .3/ø109366	= Kilogram/Square Meter	
	× 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/ø).	= 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/ø25	= Ton Long/Inch	
	× 1.583597	= Ton Long/Mile	
	× .4/ø28	= 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 × 31.68877 × 4.02404 × 88.02578 × 3.66774 × 6.03606 × .25150 × 1.10231	= Kilo-Ounce Troy/Year = Milligram/Second = Ounce Avoir/Hour = Ounce Troy/Day = Ounce Troy/Hour = Pound Avoir/Day = Pound Avoir/Hour = Ton Short Avoir/Year
Tonne _____	× 22.046223 × 257205.94 × 564383.32 × 15432356. × 1(6/o). × 1000. × 1(9/o). × 32150.742 × 35273.96 × 643014.85 × 2679.2285 × 2204.622341 × 771617.8 × .9842064 × 1.0 × 1.1023112	= Cwt Short = Dram Apoth = Dram Avoir = Grain = Gram = Kilogram = Milligram = Ounce Apoth-Troy = Ounce Avoir = Pennyweight = Pound Apoth-Troy = Pound Avoir = Scruple = Ton Long = Ton Metric = Ton Short
Ton Refrigeration: _____	× 200. × 1.0 × 288000. × 12000. × 144. × 200. × 83.33 × 288000.	= Btu/Minute = Refrigeration Short Ton = Btu/Day = Btu/Hour = Btu Loss/Pound Ice/Hour = Btu/Minute = Pound Ice Lost/Hour = Btu
Commercial: _____	× 288000. × 12000. × 144. × 200. × 83.33	= Btu/Day = Btu/Hour = Btu Loss/Pound Ice/Hour = Btu/Minute = Pound Ice Lost/Hour
Standard: _____	× 288000.	= Btu
Ton Refrigeration/Day _____	× 200.	= Btu/Minute
Ton Register _____	× 100. × 1.0	= Cubic Feet = Ton Shipping US
Ton Shipping US _____	× 31.16 × 32.143 × 40. × 2.8317 × 1.0 × 1.0 × 1.0 × 1.050	= Bushel British = Bushel US = Cubic Feet = Cubic Meter = Freight Ton = Measurement Ton = Register Ton = Ton Shipping British
Ton Short _____	× 40. × 32.07 × 889644000. × 224. × 268.8 × 8064. × 14(6/o). × 907184. × 4. × 17.857 × 20. × 907.18486 × 1000. × 29166.72 × 32000. × 2. × 2430.56 × 2000. × 1008. × .8928571 × .8928571 × .90718486 × 1.0	= Cubic Feet (Storage) = Cubic Feet Water 62F = Dyne = Gallon Liquid British = Gallon Liquid US = Gill = Grain = Gram = Hogshead = Hundredweight Long = Hundredweight Short = Kilogram = Liter = Ounce Apoth-Troy Assay = Ounce Avoir = Pipe = Pound Apoth-Troy = Pound Avoir = Quart Liquid US = Ton Gross = Ton Long = Ton Metric = Ton Net

CONVERSION FACTORS

T

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	

CONVERSION FACTORS

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

CONVERSION FACTORS

T

Tubing: Diameter Squared Inch × Ft/Sec _____	× .327	
	× 2.44798	= Cubic Feet/Minute
Diameter Squared Inch × Inch Long _____	× .4/08095195	= Gallon Water/Minute
	× .00045451	= Barrel (42)
	× .785398	= Cubic Foot
	× .0034	= Cubic Inch
	× .000431	= Gallon US
		= 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
Typ (Cotton-Woolen) _____	× 1000.	= Yard/Pound Avoir
U ₂₃₅ Fissions/Second _____	= .10/0321	= 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	= (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)
(a/b = c/d)	= (ad = bc)	= (ad = bc)
(a/b = c/d)	= (a + b)/b = (c + d)/d	= (a + b)/b = (c + d)/d
(a/b = c/d)	= (a - b)/b = (c - d)/d	= (a - b)/b = (c - d)/d
(a/b = c/d)	= (c + d)/(c - d)	= (c + d)/(c - d)
Unit Charge/Second _____	× .15/016	= 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

U

CONVERSION FACTORS

USPX1 Unit C _____	× 1.0	= International Unit
	× .1	= Sherman Unit
U-Tube: psia Baro Press + #/cuft Liq Den _____	× Tubes Inch Diff	× .0005787 = psia
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.
Gate: Water Flow Resistance: d" _____	× .9	= Equiv Feet Straight Pipe
	D' _____	× 11.
Globe: Water Flow Resistance: d" _____	× 7.5	= Equiv Feet Straight Pipe
	D' _____	× 90.
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-Sqft		
Sqft/Sec × Density Lb-Force = Abs Viscosity Pound-Force-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

CONVERSION FACTORS

V

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

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 ₂ H ₃ O 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

CONVERSION FACTORS

V

<p>Valences: Permanganate _____ = -1 Phosphate _____ = -3 Phosphide _____ = -3 Phosphoric _____ = +5 Phosphorous _____ = +3 Potassium _____ = +1 Silicon _____ = +4 Silver _____ = +1 Sodium _____ = +1 Sulfate _____ = -2 Sulfide _____ = -2 Sulfite _____ = -2 Stannic _____ = +4 Stannous _____ = +2 Sulfur _____ = -2 Zinc _____ = +2</p>	<p>= MnO₄ = PO₄ = P = P = P = K = Si = Ag = Na = SO₄ = S = SO₃ = Sn = Sn = S = Zn</p>
<p>Waffle Iron Up to _____ = 1000. Wallpaper: Feet Around Room _____ x .1111 Square Feet in Room _____ x .01375 Washing Machine: Home Automatic _____ = 700 Water _____ = 79.24 _____ = .435 _____ = .324 _____ = 8.065 _____ = 1.00000 _____ = 1.00025 _____ = 1.00083 _____ = 1.00171 _____ = 1.00425 _____ = 1.00586 _____ = 1.00767 _____ = 1.04332 _____ = 1.94 _____ = 1.938 _____ = 1.0000 _____ = .958 Water: Barrel (31.5) _____ x 4.2109 _____ x 7276.5 Water: Barrel (42) 39.2F _____ x 350.49 60F _____ x 350.16 Water: Barrel (42)/Day _____ x 1.75 _____ x .02916 _____ x .000486 Water: Barrel (42)/Hour _____ x .09357 _____ x 2.694 _____ x .2859 _____ x .7 Water: Barrel US/Day _____ x 1.3125 _____ x .021875 _____ x .0003646 Water: Boiler, Feed: Chloride _____ = 6 ppm Dissolved Oxygen _____ = .05 Hardness _____ = 26 ppm Oil _____ = None Organic Matter _____ = .5 pH Value _____ = 7.0 Water: Cast Iron Radiation: Sqft _____ x 66. _____ x 150. Water: Compressibility: Atmosphere _____ x .4/051 Water: Cooling: °F x gpm x °F Liquid Temp Drop _____ x 8.33 Water: Cubical Expansion @ 70F _____ = 115. Water: Cubic Centimeter _____ x .99997 _____ x .998844 Water: Cubic Foot 39.1F _____ x 1646. _____ x .028317</p>	<p>= Watt Avg Use = Number Rolls Needed = Number Rolls Needed = Watt Avg Use = Btu (Latent Heat) = Btu/Pound (Cp) = Btu/Pound (Cv) = Molal = Relative Volume 39.1F = Relative Volume 50F = Relative Volume 59F = Relative Volume 68F = Relative Volume 77F = Relative Volume 95F = Relative Volume 104F = Relative Volume 212F = Slug/Cubic Foot 32F = Slug/Cubic Foot 60F = Spg 4C or 39.2F = Spg 100C or 212F = Cubic Feet = Cubic Inch = Pound = Pound = Gal/Hour = Gal/Minute = Gal/Second = Cuft/Minute = Cum/Second = Diam Inch Squared x fps = gpm = Gal/Hour = Gal/Minute = Gal/Second = Max in Terms of Chlorine = cc/Liter Maximum = Max in Terms of Cal Carbonate = ppm Maximum = Not Less Than = Btu/Degree-Day (Consumes) = Btu/Hour (Transmits) = Volume (Maximum) = Btu/Hour = Parts/Million/°F = Gram 39.1F = Gram 62F = Cubic Feet of Steam = Cubic Meter</p>

W

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
	× .4/01157	= 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

CONVERSION FACTORS

W

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: Cuf/Min _____ × Feet Height	× .114	= HP (100% Eff)
Cuf/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) _____	× .5/01547	= Cuf/Second
Water: Gallon/Hour (gph) _____	× .1337	= Cuf/Hour
	× .002228	= Cuf/Minute
	× .4/0371	= Cuf/Second
	× .01666	= gpm
	× .0002777	= gps
Water: Gallon Million/Day _____	× 133680.	= Cuf/Day
	× 92.88	= Cuf/Minute
	× 1.548	= Cuf/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	= Cuf/Day
	× 8.02	= Cuf/Hour
	× .1337	= Cuf/Minute
	× .002228	= Cuf/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.	= Cuf/Hour
	× 8.02	= Cuf/Minute
	× .1337	= Cuf/Second
	× 60.	= Gal/Minute
	× 3600.	= Gal/Hour
Water: Gallon US _____	× .5/030688832	= Acre-Foot
	× 3.78	= Liter
Water: Gallon US: 39.1F _____	× .8326735	= Gallon British
	× .8593649	= Gallon Dry US
39.2F _____	× 8.345	= Pound

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	= Curn/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
	× 1.868	= 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

CONVERSION FACTORS

W

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

W

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

W 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

CONVERSION FACTORS

W

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 _____	= .8/092 × (Hot Body °K ⁴ - Ambient or Wall °K ⁴)	
/Sqin Steel Surface _____	= .7/02576 × (Hot Body °K ⁴ - Ambient or Wall °K ⁴)	
/Sqin Surface = .10/0368 × (Emissivity) × (Hot Body °K ⁴ - Ambient or Wall °K ⁴)		
Watt True _____	× 1.0005	= Volt-Ampere International
Weber _____	× 1(5/0).	= Kiloline
	× .00333585	= Magnetic Flux Unit
	× 1(8/0).	= Maxwell
Weber/Square Centimeter _____	× 1(8/0).	= Gauss
	× 1(8/0).	= Line/Sqcm
	× 645163000.	= Line/Square Inch
	× .00333585	= Mag Flux Density Unit
	× 10000.	= Weber/Square Meter
Weber/Square Inch _____	× .6/0155	= Gauss
	× .6/0155	= Line/Square Inch
	× 1(8/0).	= Line/Square Inch
	× 155(5/0).	= Maxwell/Square Centimeter
	× 1(8/0).	= 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)
	= 4.0	= Cubic Feet
Wheelbarrow: Standard Capacity _____		
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(5/0).	= 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

CONVERSION FACTORS

Y

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

Z