

UNIT CONVERSION FACTORS

- 1.) The sheets are arranged alphabetically by the unit you want to convert from. Enter your unit in column [B]. The calculated value is shown in column [G]. Column [J] is hidden with it actual unit conversion value.

Print out using direct EXCEL commands.

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This Spreadsheet Requires MACROS to be ENABLED to ASSURE proper operation. See the Workbook Help Sheet for Additional Instructions on Use.

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UNIT CONVERSION FACTORS

Value	Convert From	Convert To	Multiply By	Result
0	acre	sq. chain (Gunter's)	x (10) =	0 sq. chain (Gunter's)
0	acre	rods	x (160) =	0 rods
0	acre	sq. links (Gunter's)	x (100000) =	0 sq. links (Gunter's)
0	acre	hectare or sq. hectometer	x (0.4047) =	0 hec.or sq. hec.
0	acres	sq. feet	x (43560) =	0 sq. feet
0	acres	sq. meters	x (4047) =	0 sq. meters
0	acres	sq. miles	x (0.001562) =	0 sq. miles
0	acres	sq. yards	x (4840) =	0 sq. yards
0	acre-feet	cu. feet	x (43560) =	0 cu. feet
0	acre-feet	gallons	x (325900) =	0 gals
0	ampere-hours	coulombs	x (3600) =	0 coulombs
0	ampere-hours	faradays	x (0.03731) =	0 faradays
0	ampere-turns	gilberts	x (1.257) =	0 gilberts
0	angstrom unit	inch	x (3.94E-06) =	0 in.
0	angstrom unit	meter	x (1.00E-10) =	0 meter
0	angstrom unit	micron	x (0.0001) =	0 micron
0	astronomical unit	kilometers	x (1.50E+08) =	0 km
0	atmospheres	bar	x (1.01325) =	0 bar
0	atmospheres	cms of mercury	x (76) =	0 cms of Hg (at 0 °C)
0	atmospheres	ft. of water (at 68 degrees F)	x (33.957) =	0 ft.of H2O (@ 68 °F)
0	atmospheres	in. of water (at 68 degrees F)	x (407.484) =	0 in of H2O (@ 68°F)
0	atmospheres	in. of mercury (at 0 degrees C)	x (29.921) =	0 in.of Hg (at 0 °C)
0	atmospheres	meters of Hg (at 0 degrees C)	x (0.76) =	0 m of Hg (at 0 °C)
0	atmospheres	mms of Hg (at 0 degrees C)	x (760) =	0 mm of Hg (at 0 °C)
0	atmospheres	kgs/sq. cm	x (1.0332) =	0 kgs/sq. cm
0	atmospheres	kgs/sq. meter	x (10332.27) =	0 kgs/sq. meter
0	atmospheres	pounds/sq. ft	x (2116.22) =	0 lbs./sq. ft
0	atmospheres	pounds/sq. in	x (14.7) =	0 lbs./sq. in
0	atmospheres	tons/sq. ft	x (1.058) =	0 tons/sq. ft
0	atmospheres	tons/sq. in	x (0.007348) =	0 tons/sq. in

UNIT CONVERSION FACTORS

Value	Convert From	Convert To	Multiply By	Result
0	barrels (US dry)	bushels	x (3.281) =	0 bushels
0	barrels (US dry)	cu. inches	x (7056) =	0 cu. in.
0	barrels (US dry)	quarts (dry)	x (105) =	0 quarts (dry)
0	barrels (US, liquid)	gallons	x (31.5) =	0 gals
0	barrels (oil)	gallons (oil)	x (42) =	0 gals (oil)
0	bars	atmospheres	x (0.9869) =	0 atmospheres
0	bars	dynes/sq. cm	x (1000000) =	0 dynes/sq. cm
0	bars	kgs/sq. meter	x (10200) =	0 kgs/sq. meter
0	bars	pounds/sq. ft	x (2089) =	0 lbs./sq. ft
0	bars	pounds/sq. in	x (14.5) =	0 lbs./sq. in
0	bolt (US cloth)	meters	x (36.576) =	0 meters
0	Btu	liter-atmospheres	x (10.409) =	0 liter-atmos
0	Btu	ergs	x (1.06E+10) =	0 ergs
0	Btu	foot-lbs	x (778.3) =	0 foot-lbs
0	Btu	gram-calories	x (252) =	0 gram-cals
0	Btu	horsepower-hrs	x (0.0003931) =	0 hp-hrs
0	Btu	joules	x (1054.8) =	0 joules
0	Btu	kilogram-calories	x (0.252) =	0 kg-cals
0	Btu	kilogram-meters	x (107.5) =	0 kg-meters
0	Btu	kilowatt-hrs	x (0.0002928) =	0 kw-hrs
0	Btu/hr	foot-pounds/sec	x (0.2162) =	0 foot-lbs./sec
0	Btu/hr	gram-cal/sec	x (0.07) =	0 gram-cal/sec
0	Btu/hr	horsepower-hrs	x (0.0003929) =	0 hp-hrs
0	Btu/hr	watts	x (0.2931) =	0 watts
0	Btu/min	foot-lbs/sec	x (12.96) =	0 foot-lbs/sec
0	Btu/min	horsepower	x (0.02356) =	0 hp
0	Btu/min	kilowatts	x (0.01757) =	0 kws
0	Btu/min	watts	x (17.57) =	0 watts
0	Btu/sq. ft/min	watts/sq. in	x (0.1221) =	0 watts/sq. in
0	bucket (Brit. dry)	cubic cm	x (18180) =	0 cu. cm
0	bushels	cu. ft	x (1.2445) =	0 cu. ft
0	bushels	cu. in	x (2150.4) =	0 cu. in
0	bushels	cu. meters	x (0.03524) =	0 cu. meters
0	bushels	liters	x (35.24) =	0 liters
0	bushels	pecks	x (4) =	0 pecks
0	bushels	pints (dry)	x (64) =	0 pints (dry)
0	bushels	quarts (dry)	x (32) =	0 quarts (dry)

UNIT CONVERSION FACTORS

Value	Convert From	Convert To	Multiply By	Result
0	caliber	inches	x (0.01)	= 0 in.
0	caliber	millimeters	x (0.254)	= 0 mms
0	calorie_gram (mean)	Btu (mean)	x (0.00396832)	= 0 Btu (mean)
0	calorie	horsepower-hour	x (1.56E-06)	= 0 hp-hour
0	calorie	horsepower-hour (metric)	x (1.58E-06)	= 0 hp-hour (metric)
0	calorie	joule	x (4.1868)	= 0 joule
0	calorie	kilowatt-hour	x (1.16E-06)	= 0 kw-hour
0	candle/sq. cm	lamberts	x (3.142)	= 0 lamberts
0	candle/sq. inch	lamberts	x (0.487)	= 0 lamberts
0	centares (centiares)	sq. meters	x (1)	= 0 sq. meters
0	centigrams	grams	x (0.01)	= 0 grams
0	centiliter	ounce fluid (US)	x (0.3382)	= 0 ounce fluid (US)
0	centiliter	cubic inch	x (0.6103)	= 0 cu. in.
0	centiliter	drams	x (2.705)	= 0 drams
0	centiliters	liters	x (0.01)	= 0 liters
0	centimeters	feet	x (0.03281)	= 0 feet
0	centimeters	inches	x (0.3937)	= 0 in.
0	centimeters	kilometers	x (0.00001)	= 0 km
0	centimeters	meters	x (0.01)	= 0 meters
0	centimeters	miles	x (6.21E-06)	= 0 miles
0	centimeters	millimeters	x (10)	= 0 mms
0	centimeters	milis	x (393.7)	= 0 milis
0	centimeters	yards	x (0.01094)	= 0 yards
0	centimeters-dynes	cm-grams	x (0.00102)	= 0 cm-grams
0	centimeter-dynes	meter-kgs	x (1.02E-08)	= 0 meter-kgs
0	centimeter-dynes	pound-feet	x (7.38E-08)	= 0 pound-feet
0	centimeter-grams	cm-dynes	x (980.7)	= 0 cm-dynes
0	centimeter-grams	meter-kgs	x (0.00001)	= 0 meter-kgs
0	centimeter-grams	pound-feet	x (0.07233)	= 0 pound-feet
0	centimeters of mercury	atmospheres	x (0.01316)	= 0 atmospheres
0	centimeters of mercury	feet of water	x (0.4461)	= 0 feet of water
0	centimeters of mercury	kgs/sq. meter	x (136)	= 0 kgs/sq. meter
0	centimeters of mercury	pounds/sq. ft	x (27.85)	= 0 lbs./sq. ft
0	centimeters of mercury	pounds/sq. in	x (0.1934)	= 0 lbs./sq. in
0	centimeters/sec	feet/min	x (1.1969)	= 0 feet/min
0	centimeters/sec	feet/sec	x (0.03281)	= 0 feet/sec
0	centimeters/sec	kilometers/hr	x (0.036)	= 0 km/hr
0	centimeters/sec	knots	x (0.1943)	= 0 knots
0	centimeters/sec	meters/min	x (0.6)	= 0 meters/min
0	centimeters/sec	miles/hr	x (0.02237)	= 0 miles/hr
0	centimeters/sec	miles/min	x (0.0003728)	= 0 miles/min
0	centimeters/sec/sec	feet/sec/sec	x (0.03281)	= 0 feet/sec/sec
0	centimeters/sec/sec	kms/hr/sec	x (0.036)	= 0 kms/hr/sec
0	centimeters/sec/sec	meters/sec/sec	x (0.01)	= 0 meters/sec/sec
0	centimeters/sec/sec	miles/hr/sec	x (0.02237)	= 0 miles/hr/sec
0	chain	inches	x (792)	= 0 in.
0	chain	meters	x (20.12)	= 0 meters
0	chain (surveyor's or Gunter's)	yards	x (22)	= 0 yards
0	circular mils	sq. cms	x (5.07E-06)	= 0 sq. cms
0	circular mils	sq. mils	x (0.7854)	= 0 sq. mils
0	circular mils	sq. inches	x (7.85E-07)	= 0 sq. in.
0	circumference	radians	x (6.283)	= 0 radians
0	corde	cord feet	x (8)	= 0 cord feet
0	cord foot	cu. foot	x (16)	= 0 cu. foot
0	coulomb	statcoulombs	x (3.00E+09)	= 0 statcoulombs
0	coulombs	faradays	x (1.04E-05)	= 0 faradays
0	coulombs/sq. cm	coulombs/sq. in	x (64.52)	= 0 coulombs/sq. in
0	coulombs/sq. cm	coulombs/sq. meter	x (10000)	= 0 coulombs/sq. m
0	coulombs/sq. in	coulombs/sq. cm	x (0.155)	= 0 coulombs/sq. cm
0	coulombs/sq. in	coulombs/sq. meter	x (1550)	= 0 coulombs/sq. m
0	coulombs/sq. meter	coulombs/sq. cm	x (0.0001)	= 0 coulombs/sq. cm
0	coulombs/sq. meter	coulombs/sq. in	x (0.0006452)	= 0 coulombs/sq. in
0	cubic centimeters	cu. foot	x (3.53E-05)	= 0 cu. foot
0	cubic centimeters	cu. inches	x (0.06102374)	= 0 cu. in.
0	cubic centimeters	cu. meters	x (0.000001)	= 0 cu. meters
0	cubic centimeters	cu. yards	x (1.31E-06)	= 0 cu. yards
0	cubic centimeters	gallons (US liq.)	x (0.0002642)	= 0 gals (US liq.)
0	cubic centimeters	liters	x (0.001)	= 0 liters
0	cubic centimeters	pints (US liq.)	x (0.002113)	= 0 pints (US liq.)
0	cubic centimeters	quarts (US liq.)	x (0.001057)	= 0 quarts (US liq.)
0	cubic feet	bushels (dry)	x (0.8036)	= 0 bushels (dry)
0	cubic feet	cu. cms	x (28.32)	= 0 cu. cms
0	cubic feet	cu. inches	x (1728)	= 0 cu. in.
0	cubic feet	cu. meters	x (0.02832)	= 0 cu. meters
0	cubic feet	cu. yards	x (0.03704)	= 0 cu. yards
0	cubic feet	gallons (US liq.)	x (7.48052)	= 0 gals (US liq.)
0	cubic feet	liters	x (28.32)	= 0 liters
0	cubic feet	pints (US liq.)	x (59.84)	= 0 pints (US liq.)
0	cubic feet	quarts (US liq.)	x (29.92)	= 0 quarts (US liq.)
0	cubic feet/min	cu. cms/sec	x (472)	= 0 cu. cms/sec
0	cubic feet/min	gallons/sec	x (0.1247)	= 0 gals/sec
0	cubic feet/min	liters/sec	x (0.472)	= 0 liters/sec
0	cubic feet/min	pounds of water/min	x (62.43)	= 0 lbs. of water/min
0	cubic feet/sec	million gals./day	x (0.646317)	= 0 million gals./day
0	cubic feet/sec	gallons/min	x (448.831)	= 0 gals/min
0	cubic inches	cu. cms	x (16.39)	= 0 cu. cms
0	cubic inches	cu. feet	x (0.0005787)	= 0 cu. feet
0	cubic inches	cu. meters	x (1.64E-05)	= 0 cu. meters
0	cubic inches	cubic yards	x (2.14E-05)	= 0 cu. yards
0	cubic inches	gallons	x (0.004329)	= 0 gals
0	cubic inches	mil-foot	x (106100)	= 0 mil-foot
0	cubic inches	pints (US liq.)	x (0.03463)	= 0 pints (US liq.)
0	cubic inches	quarts (US liq.)	x (0.01732)	= 0 quarts (US liq.)
0	cubic meters	bushels (dry)	x (28.38)	= 0 bushels (dry)
0	cubic meters	cubic cms	x (1000000)	= 0 cu. cms
0	cubic meters	cubic feet	x (35.31)	= 0 cu. feet
0	cubic meters	cubic inches	x (61023)	= 0 cu. in.
0	cubic meters	cubic yards	x (1.307951)	= 0 cu. yards
0	cubic meters	gallons (US liq.)	x (264.2)	= 0 gals (US liq.)
0	cubic meters	liters	x (1000)	= 0 liters
0	cubic meters	pints (US liq.)	x (2113)	= 0 pints (US liq.)
0	cubic meters	quarts (US liq.)	x (1057)	= 0 quarts (US liq.)
0	cubic yards	cubic cms	x (764600)	= 0 cu. cms
0	cubic yards	cubic feet	x (27)	= 0 cu. feet
0	cubic yards	cubic inches	x (46656)	= 0 cu. in.
0	cubic yards	cubic meters	x (0.7646)	= 0 cu. meters
0	cubic yards	gallons (US liq.)	x (202)	= 0 gals (US liq.)
0	cubic yards	liters	x (764.6)	= 0 liters
0	cubic yards	pints (US liq.)	x (1615.9)	= 0 pints (US liq.)
0	cubic yards	quarts (US liq.)	x (807.9)	= 0 quarts (US liq.)
0	cubic yards/min	cubic feet/sec	x (0.45)	= 0 cu. feet/sec
0	cubic yards/min	gallons/sec	x (3.367)	= 0 gals/sec
0	cubic yards/min	liters/sec	x (12.74)	= 0 liters/sec
0	cups	cubic cms	x (236.588)	= 0 cu. cms

UNIT CONVERSION FACTORS

Value	Convert From	Convert To	Multiply By	Result
0	days	seconds	x (86400) =	0 secs
0	decigrams	grams	x (0.1) =	0 grams
0	deciliters	liters	x (0.1) =	0 liters
0	decimeters	meters	x (0.1) =	0 meters
0	degrees (angle)	quadrants	x (0.01111) =	0 quadrants
0	degrees (angle)	radians	x (0.01745) =	0 radians
0	degrees (angle)	seconds	x (3600) =	0 secs
0	degrees/sec	radians/sec	x (0.01745) =	0 radians/sec
0	degrees/sec	revolutions/min	x (0.1667) =	0 revolutions/min
0	degrees/sec	revolutions/sec	x (0.002778) =	0 revolutions/sec
0	dekagrams	grams	x (10) =	0 grams
0	dekaliters	liters	x (10) =	0 liters
0	dekameters	meters	x (10) =	0 meters
0	drams(apoth. or troy)	ounces(avoirdupois)	x (0.1371429) =	0 ounces(avoir)
0	drams(apoth. or troy)	ounces (troy)	x (0.125) =	0 ounces (troy)
0	drams(US fluid or apoth.)	cubic cm	x (3.6967) =	0 cu. cm
0	drams	grains	x (27.3437) =	0 grains
0	drams	grams	x (1.7718) =	0 grams
0	drams	ounces	x (0.0625) =	0 ounces
0	drops	teaspoons	x (0.01666) =	0 teaspoons
0	dyne/cm	erg/sq. millimeter	x (0.01) =	0 erg/sq. mm
0	dyne/sq. cm	atmospheres	x (9.87E-07) =	0 atmospheres
0	dyne/sq. cm	inch of mercury at 0C	x (2.95E-05) =	0 in.of Hg at 0 °C
0	dyne/sq. cm	inch of water at 4C	x (0.0004015) =	0 in.of H2O at 4 °C
0	dynes	grams	x (0.00102) =	0 grams
0	dynes	joules/cm	x (0.0000001) =	0 joules/cm
0	dynes	joules/meter (newtons)	x (0.00001) =	0 joules/m (newtons)
0	dynes	kilograms	x (1.02E-06) =	0 kgs
0	dynes	poundals	x (7.23E-05) =	0 poundals
0	dynes	pounds	x (2.25E-06) =	0 lbs.
0	dynes/sq. cm	bars	x (0.000001) =	0 bars

UNIT CONVERSION FACTORS

Value	Convert From	Convert To	Multiply By	Result
0	ell	cm	x (114.3)	= 0 cm
0	ell	inches	x (45)	= 0 in.
0	em (pica)	inch	x (0.167)	= 0 in.
0	em (pica)	cm	x (0.4233)	= 0 cm
0	erg/sec	dyne-cm/sec	x (1)	= 0 dyne-cm/sec
0	ergs	Btu	x (9.48E-11)	= 0 Btu
0	ergs	dyne-centimeters	x (1)	= 0 dyne-centimeters
0	ergs	foot-pounds	x (7.37E-08)	= 0 foot-lbs.
0	ergs	gram-calories	x (2.39E-08)	= 0 gram-cals
0	ergs	grams-cms	x (0.00102)	= 0 grams-cms
0	ergs	horsepower-hrs	x (3.73E-14)	= 0 hp-hrs
0	ergs	joules	x (0.0000001)	= 0 joules
0	ergs	kg-calories	x (2.39E-11)	= 0 kg-cals
0	ergs	kg-meters	x (1.02E-08)	= 0 kg-meters
0	ergs	kilowatt-hrs	x (2.78E-14)	= 0 kw-hrs
0	ergs	watt-hrs	x (2.78E-11)	= 0 watt-hrs
0	ergs/sec	Btu/min	x (5.69E-06)	= 0 Btu/min
0	ergs/sec	ft-lbs/min	x (4.43E-06)	= 0 ft-lbs/min
0	ergs/sec	ft-lbs/sec	x (7.38E-08)	= 0 ft-lbs/sec
0	ergs/sec	horsepower	x (1.34E-10)	= 0 hp
0	ergs/sec	kg-calories/min	x (1.43E-09)	= 0 kg-cals/min
0	ergs/sec	kilowatts	x (1.00E-10)	= 0 kws

UNIT CONVERSION FACTORS

Value	Convert From	Convert To	Multiply By	Result
0	farads	microfarads	x (1000000) =	0 microfarads
0	faraday/sec	ampere (absolute)	x (96500) =	0 ampere (abs)
0	faradays	ampere-hours	x (26.8) =	0 ampere-hours
0	faradays	coulombs	x (96490) =	0 coulombs
0	fathoms	meter	x (1.828804) =	0 meter
0	fathoms	feet	x (6) =	0 feet
0	feet	centimeters	x (30.48) =	0 centimeters
0	feet	kilometers	x (0.0003048) =	0 km
0	feet	meters	x (0.3048) =	0 meters
0	feet	miles (naut.)	x (0.0001645) =	0 miles (naut.)
0	feet	miles (stat.)	x (0.0001894) =	0 miles (stat.)
0	feet	millimeters	x (304.8) =	0 mms
0	feet	mils	x (12000) =	0 mils
0	feet of water	atmospheres	x (0.029449) =	0 atmospheres
0	feet of water	bar	x (0.029839) =	0 bar
0	feet of water	in. of mercury	x (0.88115) =	0 in. of Hg
0	feet of water	in. of water	x (12) =	0 in. of H ₂ O
0	feet of water	kgs/sq. cm	x (0.03048) =	0 kgs/sq. cm
0	feet of water	kgs/sq. meter	x (304.275) =	0 kgs/sq. meter
0	feet of water	megapascal	x (0.0029839) =	0 MPa
0	feet of water	mm of mercury	x (22.3813) =	0 mm Hg
0	feet of water	pounds/sq. ft	x (62.3205) =	0 lbs./sq. ft
0	feet of water	pounds/sq. in	x (0.432781) =	0 lbs./sq. in
0	feet/min	cms/sec	x (0.508) =	0 cms/sec
0	feet/min	feet/sec	x (0.01667) =	0 feet/sec
0	feet/min	kms/kr	x (0.01829) =	0 kms/kr
0	feet/min	meters/min	x (0.3048) =	0 meters/min
0	feet/min	miles/hr	x (0.01136) =	0 miles/hr
0	feet/sec	cms/sec	x (30.48) =	0 cms/sec
0	feet/sec	kms/hr	x (1.097) =	0 kms/hr
0	feet/sec	knots	x (0.5921) =	0 knots
0	feet/sec	meters/min	x (18.29) =	0 meters/min
0	feet/sec	miles/hr	x (0.6818) =	0 miles/hr
0	feet/sec	miles/min	x (0.01136) =	0 miles/min
0	feet/sec/sec	cms/sec/sec	x (30.48) =	0 cms/sec/sec
0	feet/sec/sec	kms/hr/sec	x (1.097) =	0 kms/hr/sec
0	feet/sec/sec	meters/sec/sec	x (0.3048) =	0 meters/sec/sec
0	feet/sec/sec	miles/hr/sec	x (0.6818) =	0 miles/hr/sec
0	feet/100 feet	per cent grade	x (1) =	0 per cent grade
0	foot-candle	lumen/sq. meter	x (10.764) =	0 lumen/sq. meter
0	foot-pounds	Btu	x (0.001286) =	0 Btu
0	foot-pounds	ergs	x (1.36E+07) =	0 ergs
0	foot-pounds	gram-calories	x (0.3238) =	0 gram-cals
0	foot-pounds	hp-hrs	x (5.05E-07) =	0 hp-hrs
0	foot-pounds	joules	x (1.356) =	0 joules
0	foot-pounds	kg-calories	x (0.000324) =	0 kg-cals
0	foot-pounds	kg-meters	x (0.1383) =	0 kg-meters
0	foot-pounds	kilowatt-hrs	x (3.77E-07) =	0 kw-hrs
0	foot-pounds/min	Btu/min	x (0.001286) =	0 Btu/min
0	foot-pounds/min	foot-pounds/sec	x (0.01667) =	0 foot-lbs./sec
0	foot-pounds/min	horsepower	x (0.000303) =	0 hp
0	foot-pounds/min	kg-calories/min	x (0.000324) =	0 kg-cals/min
0	foot-pounds/min	kilowatts	x (0.000226) =	0 kws
0	foot-pounds/sec	Btu/hr	x (4.6263) =	0 Btu/hr
0	foot-pounds/sec	Btu/min	x (0.07717) =	0 Btu/min
0	foot-pounds/sec	horsepower	x (8.18E-04) =	0 hp
0	foot-pounds/sec	kg-calories/min	x (1.01945) =	0 kg-cals/min
0	foot-pounds/sec	kilowatts	x (0.001356) =	0 kws
0	furlongs	miles (US)	x (0.125) =	0 miles (US)
0	furlongs	rods	x (40) =	0 rods
0	furlongs	feet	x (660) =	0 feet

UNIT CONVERSION FACTORS

Value	Convert From	Convert To	Multiply By	Result
0	gallons	cubic cms	x (3785.412) =	0 cu. cms
0	gallons	cubic feet	x (0.13368) =	0 cu. feet
0	gallons	cu. inches	x (231) =	0 cu. in.
0	gallons	cu. meters	x (0.003785) =	0 cu. meters
0	gallons	cu. yards	x (0.004951) =	0 cu. yards
0	gallons	liters	x (3.78533) =	0 liters
0	gallons (liq. British imp.)	gallons (US liq.)	x (1.20095) =	0 gals (US liq.)
0	gallons (US)	gallons (imp.)	x (0.833) =	0 gals (imp.)
0	gallons of water	pounds of water	x (8.337) =	0 lbs. of water
0	gallons/min	cu. ft/sec	x (0.002228) =	0 cu. ft/sec
0	gallons/min	liters/sec	x (0.6308) =	0 liters/sec
0	gallons/min	cu. feet/hr	x (8.0208) =	0 cu. feet/hr
0	gausses	lines/sq. inch	x (6.452) =	0 lines/sq. in.
0	gausses	webers/sq. cm	x (1.00E-08) =	0 webers/sq. cm
0	gausses	webers/sq. inch	x (6.45E-08) =	0 webers/sq. in.
0	gausses	webers/sq. meter	x (0.0001) =	0 webers/sq. meter
0	gilberts	ampere-turns	x (0.7958) =	0 ampere-turns
0	gilberts/cm	amp-turns/cm	x (0.7958) =	0 amp-turns/cm
0	gilberts/cm	amp-turns/in	x (2.021) =	0 amp-turns/in
0	gilberts/cm	amp-turns/meter	x (79.581) =	0 amp-turns/meter
0	gills (British)	cubic cm	x (142.07) =	0 cu. cm
0	gills	liters	x (0.1183) =	0 liters
0	gills	pints (liq.)	x (0.25) =	0 pints (liq.)
0	grains	drams (avoirdupois)	x (0.03657143) =	0 drams (avoir)
0	grains (troy)	grains (avoirdupois)	x (1) =	0 grains (avoir)
0	grains (troy)	grams	x (0.0648) =	0 grams
0	grains (troy)	ounces (avoirdupois)	x (0.0020833) =	0 ounces (avoir)
0	grains (troy)	pennyweight (troy)	x (0.04167) =	0 pennyweight (troy)
0	grains/US gallon	parts/million	x (17.118) =	0 parts/million
0	grains/US gallon	pounds/million gal	x (142.86) =	0 lbs./million gal
0	grains/imp. gallon	parts/million	x (14.286) =	0 parts/million
0	grams	carat(metric)	x (5) =	0 carat(metric)
0	grams	dram	x (0.56438339) =	0 dram
0	grams	dynes	x (980.7) =	0 dynes
0	grams	grains	x (15.43) =	0 grains
0	grams	joules/cm	x (9.81E-05) =	0 joules/cm
0	grams	joules/meter (newtons)	x (9.81E-03) =	0 joules/m (newtons)
0	grams	kilograms	x (0.001) =	0 kgs
0	grams	milligrams	x (1000) =	0 milligrams
0	grams	ounces(avoirdupois)	x (0.035273962) =	0 ounces(avoir)
0	grams	ounces (troy)	x (0.032150747) =	0 ounces (troy)
0	grams	poundals	x (0.07093) =	0 poundals
0	grams	pounds	x (0.002204623) =	0 lbs.
0	grams/cm	pounds/inch	x (0.0056) =	0 lbs./in.
0	grams/cu. cm	pounds/cu. ft	x (62.43) =	0 lbs./cu. ft
0	grams/cu. cm	pounds/cu. in	x (0.03613) =	0 lbs./cu. in
0	grams/cu. cm	pounds/mil-foot	x (3.41E-07) =	0 lbs./mil-foot
0	grams/liter	grains/gal	x (58.417) =	0 grains/gal
0	grams/liter	pounds/1000 gal	x (8.345) =	0 lbs./1000 gal
0	grams/liter	pounds/cu. ft	x (0.062427) =	0 lbs./cu. ft
0	grams/liter	parts/million	x (1000) =	0 parts/million
0	grams/sq. cm	pounds/sq. ft	x (2.0481) =	0 lbs./sq. ft
0	gram-calories	Btu	x (0.0039683) =	0 Btu
0	gram-calories	ergs	x (4.19E-07) =	0 ergs
0	gram-calories	foot-pounds	x (3.088) =	0 foot-lbs.
0	gram-calories	horsepower-hrs	x (1.56E-06) =	0 hp-hrs
0	gram-calories	kilowatt-hrs	x (1.16E-06) =	0 kw-hrs
0	gram-calories	watt-hrs	x (0.001163) =	0 watt-hrs
0	gram-calories/sec	Btu/hr	x (14.286) =	0 Btu/hr
0	gram-calories	Btu	x (9.30E-08) =	0 Btu
0	gram-centimeters	ergs	x (980.7) =	0 ergs
0	gram-centimeters	joules	x (980700) =	0 joules
0	gram-centimeters	kg-cal	x (2.34E+08) =	0 kg-cal
0	gram-centimeters	kg-meters	x (100000) =	0 kg-meters

UNIT CONVERSION FACTORS

Value	Convert From	Convert To	Multiply By	Result
0	hand	cm	x (10.16) =	0 cm
0	hectares	acres	x (2.471) =	0 acres
0	hectares	sq. feet	x (107600) =	0 sq. feet
0	hectograms	grams	x (100) =	0 grams
0	hectoliters	liters	x (100) =	0 liters
0	hectometers	meters	x (100) =	0 meters
0	hectowatts	watts	x (100) =	0 watts
0	henries	millihenries	x (1000) =	0 millihenries
0	hogsheads (British)	cubic feet	x (10.114) =	0 cu. feet
0	hogsheads (U.S.)	cubic feet	x (8.42184) =	0 cu. feet
0	hogsheads (U.S.)	gallons (U.S.)	x (63) =	0 gals (U.S.)
0	horsepower	Btu/min	x (42.44) =	0 Btu/min
0	horsepower	Btu/hr	x (2544.48) =	0 Btu/hr
0	horsepower	foot-lbs/min	x (33000) =	0 foot-lbs/min
0	horsepower	foot-lbs/sec	x (550) =	0 foot-lbs/sec
0	horsepower (metric)	horsepower	x (0.9863) =	0 hp
0	horsepower	kg-calories/min	x (10.68) =	0 kg-cals/min
0	horsepower	kilowatts	x (0.7457) =	0 kws
0	horsepower	watts	x (745.7) =	0 watts
0	horsepower (boiler)	Btu/hr	x (33479) =	0 Btu/hr
0	horsepower (boiler)	kilowatts	x (9.803) =	0 kws
0	horsepower-hrs	Btu	x (2547) =	0 Btu
0	horsepower-hrs	ergs	x (2.68E+13) =	0 ergs
0	horsepower-hrs	foot-lbs	x (1980000) =	0 foot-lbs
0	horsepower-hrs	gram-calories	x (641190) =	0 gram-cals
0	horsepower-hrs	joules	x (2684000) =	0 joules
0	horsepower-hrs	kg-calories	x (641.1) =	0 kg-cals
0	horsepower-hrs	kg-meters	x (273700) =	0 kg-meters
0	horsepower-hrs	kilowatt-hrs	x (0.7457) =	0 kw-hrs
0	hours (mean solar)	days	x (0.04166667) =	0 days
0	hours (mean solar)	weeks	x (0.005952381) =	0 weeks
0	hundredweights (long)	pounds	x (112) =	0 lbs.
0	hundredweights (long)	tons (long)	x (0.05) =	0 tons (long)
0	hundredweights (short)	ounces (avoirdupois)	x (1600) =	0 ounces (avoir)
0	hundredweights (short)	pounds	x (100) =	0 lbs.
0	hundredweights (short)	tons (metric)	x (0.0453592) =	0 tons (metric)
0	hundredweights (short)	tons (long)	x (0.0446429) =	0 tons (long)

UNIT CONVERSION FACTORS

Value	Convert From	Convert To	Multiply By	Result
0	inches	centimeters	x (2.54)	centimeters
0	inches	feet	x (0.08333333)	feet
0	inches	meters	x (0.0254)	meters
0	inches	miles	x (0.00001578)	miles
0	inches	millimeters	x (25.4)	mms
0	inches	mils	x (1000)	mils
0	inches	yards	x (0.027777778)	yards
0	inches of mercury	atmospheres	x (0.033421)	atmospheres
0	inches of mercury	bar	x (0.033864)	bar
0	inches of mercury	feet of water	x (1.1349)	feet of water
0	inches of mercury	in. of water	x (13.6185)	in. of water
0	inches of mercury	kgs/sq. cm	x (0.03453)	kgs/sq. cm
0	inches of mercury	kgs/sq. meter	x (345.316)	kgs/sq. meter
0	inches of mercury	megapascal	x (0.0033864)	MPa
0	inches of mercury	mm of mercury	x (25.40005)	mm of Hg
0	inches of mercury	pounds/sq. ft.	x (70.7262)	lbs./sq. ft.
0	inches of mercury	pounds/sq. in.	x (0.491154)	lbs./sq. in.
0	inches of water (at 4C)	atmospheres	x (0.002454)	atmospheres
0	inches of water (at 4C)	bar	x (0.00249)	bar
0	inches of water (at 4C)	feet of water	x (0.08333)	ft. of H2O
0	inches of water (at 4C)	inches of mercury	x (0.07343)	in. of Hg
0	inches of water (at 4C)	kgs/sq. cm	x (0.00253)	kgs/sq. cm
0	inches of water (at 4C)	kgs/sq. m	x (25.375)	kgs/sq. m
0	inches of water (at 4C)	megapascal	x (0.000249)	MPa
0	inches of water (at 4C)	mm of mercury	x (1.8651)	mm of Hg
0	inches of water (at 4C)	ounces/sq. in	x (0.5781)	ounces/sq. in
0	inches of water (at 4C)	pounds/sq. ft	x (5.1972)	lbs./sq. ft
0	inches of water (at 4C)	pounds/sq. in	x (0.036092)	lbs./sq. in
0	international ampere	ampere (absolute)	x (0.9998)	ampere (abs)
0	international volt	joules (absolute)	x (1.59E-19)	joules (abs)
0	international volt	joules	x (96540)	joules
0	joules	Btu	x (9.48E-04)	Btu
0	joules	ergs	x (10000000)	ergs
0	joules	foot-pounds	x (0.7376)	foot-lbs.
0	joules	kg-calories	x (0.0002389)	kg-cals
0	joules	kg-meters	x (0.102)	kg-meters
0	joules	watt-hrs	x (0.0002778)	watt-hrs
0	joules/cm	grams	x (10200)	grams
0	joules/cm	dynes	x (10000000)	dynes
0	joules/cm	joules/meter (newton)	x (100)	joules/m (newton)
0	joules	poundals	x (723.3)	poundals
0	joules	pounds	x (22.48)	lbs.

UNIT CONVERSION FACTORS

Value	Convert From	Convert To	Multiply By	Result
0	kilograms	dynes	x (980665)	= 0 dynes
0	kilograms	grams	x (1000)	= 0 grams
0	kilograms	joules/cm	x (0.09807)	= 0 joules/cm
0	kilograms	joules/meter (newtons)	x (9.807)	= 0 joules/m (newtons)
0	kilograms	poundals	x (70.93)	= 0 poundals
0	kilograms	pounds	x (2.205)	= 0 lbs.
0	kilograms	tons (long)	x (9.84E-04)	= 0 tons (long)
0	kilograms	tons (short)	x (1.10E-03)	= 0 tons (short)
0	kilograms/cu meter	grams/cu cm	x (0.001)	= 0 grams/cu cm
0	kilograms/cu meter	pound/cu ft	x (0.06243)	= 0 pound/cu ft
0	kilograms/cu meter	pounds/cu in	x (3.61E-05)	= 0 lbs./cu in
0	kilograms/cu meter	pounds/mil-foot	x (3.41E-10)	= 0 lbs./mil-foot
0	kilograms/meter	pounds/ft	x (0.672)	= 0 lbs./ft
0	kilograms/sq cm	bars	x (0.98067)	= 0 bars
0	kilograms/sq cm	dynes	x (980665)	= 0 dynes
0	kilograms/sq cm	atmospheres	x (0.96784)	= 0 atmospheres
0	kilograms/sq cm	feet of water	x (32.865)	= 0 feet of H2O
0	kilograms/sq cm	inches of mercury	x (28.959)	= 0 in. of Hg
0	kilograms/sq cm	inches of water	x (394.38)	= 0 in. of H2O
0	kilograms/sq cm	kilograms/sq m	x (10000)	= 0 kgs/sq meter
0	kilograms/sq cm	megapascal	x (0.098067)	= 0 megapascal
0	kilograms/sq cm	mm of mercury	x (735.559)	= 0 mm. of Hg
0	kilograms/sq cm	pounds/sq ft	x (2048.155)	= 0 lbs./sq ft
0	kilograms/sq cm	pounds/sq in	x (14.2233)	= 0 lbs./sq in
0	kilograms/sq meter	atmospheres	x (9.68E-05)	= 0 atmospheres
0	kilograms/sq meter	bars	x (9.81E-05)	= 0 bars
0	kilograms/sq meter	feet of water	x (0.003287)	= 0 feet of H2O
0	kilograms/sq meter	inches of mercury	x (0.002896)	= 0 in. of Hg
0	kilograms/sq meter	inches of water	x (0.03944)	= 0 in. of H2O
0	kilograms/sq meter	kgs/sq centimeter	x (0.0001)	= 0 kgs/sq cm
0	kilograms/sq meter	megapascal	x (0.0000098)	= 0 megapascal
0	kilograms/sq meter	mm of mercury	x (0.073556)	= 0 mm. of Hg
0	kilograms/sq meter	pounds/sq ft	x (0.204768)	= 0 lbs./sq ft
0	kilograms/sq meter	pounds/sq in	x (0.001422)	= 0 lbs./sq in
0	kilograms/sq mm	kgs/sq meter	x (1.00E+06)	= 0 kgs/sq meter
0	kilogram-calories	Btu	x (3.968)	= 0 Btu
0	kilogram-calories	foot-pounds	x (3088)	= 0 foot-lbs.
0	kilogram-calories	hp-hrs	x (1.56E-03)	= 0 hp-hrs
0	kilogram-calories	joules	x (4186)	= 0 joules
0	kilogram-calories	kg-meters	x (426.9)	= 0 kg-meters
0	kilogram-calories	kilojoules	x (4.186)	= 0 kilojoules
0	kilogram-calories	kilowatt-hrs	x (1.16E-03)	= 0 kw-hrs
0	kilogram-meters	Btu	x (9.29E-03)	= 0 Btu
0	kilogram-meters	ergs	x (9.80E+07)	= 0 ergs
0	kilogram-meters	foot-pounds	x (7.233)	= 0 foot-lbs.
0	kilogram-meters	joules	x (9.804)	= 0 joules
0	kilogram-meters	kg-cals	x (2.34E-03)	= 0 kg-cals
0	kilogram-meters	kilowatt-hrs	x (2.72E-06)	= 0 kw-hrs
0	kilolines	maxwells	x (1000)	= 0 maxwells
0	kiloliters	liters	x (1000)	= 0 liters
0	kilometers	astronomical unit	x (6.68E-09)	= 0 astronomical unit
0	kilometers	centimeters	x (1.00E+05)	= 0 centimeters
0	kilometers	feet	x (3280.84)	= 0 feet
0	kilometers	inches	x (3.94E+04)	= 0 in.
0	kilometers	light year	x (1.06E-13)	= 0 light year
0	kilometers	meters	x (1000)	= 0 meters
0	kilometers	miles	x (0.6214)	= 0 miles
0	kilometers	millimeters	x (1.00E+06)	= 0 mms
0	kilometers	yards	x (1094)	= 0 yards
0	kilometers/hr	cms/sec	x (27.78)	= 0 cms/sec
0	kilometers/hr	feet/min	x (54.68)	= 0 feet/min
0	kilometers/hr	feet/sec	x (0.9113)	= 0 feet/sec
0	kilometers/hr	knots	x (0.5396)	= 0 knots
0	kilometers/hr	meters/min	x (16.67)	= 0 meters/min
0	kilometers/hr	miles/hr	x (0.6214)	= 0 miles/hr
0	kilometers/hr/sec	cms/hr/sec	x (27.78)	= 0 cms/hr/sec
0	kilometers/hr/sec	ft/sec/sec	x (0.9113)	= 0 ft/sec/sec
0	kilometers/hr/sec	meters/sec/sec	x (0.2778)	= 0 meters/sec/sec
0	kilometers/hr/sec	miles/hr/sec	x (0.6214)	= 0 miles/hr/sec
0	kilowatts	Btu/min	x (56.92)	= 0 Btu/min
0	kilowatts	foot-lbs/min	x (4.43E+04)	= 0 foot-lbs/min
0	kilowatts	foot-lbs/sec	x (737.6)	= 0 foot-lbs/sec
0	kilowatts	horsepower	x (1.341)	= 0 hp
0	kilowatts	kg-cals/min	x (14.34)	= 0 kg-cals/min
0	kilowatts	watts	x (1000)	= 0 watts
0	kilowatt-hrs	Btu	x (3413)	= 0 Btu
0	kilowatt-hrs	ergs	x (3.60E+13)	= 0 ergs
0	kilowatt-hrs	foot-lbs	x (2.66E+06)	= 0 foot-lbs
0	kilowatt-hrs	gram-calories	x (859850)	= 0 gram-cals
0	kilowatt-hrs	horsepower-hrs	x (1.341)	= 0 hp-hrs
0	kilowatt-hrs	joules	x (3.60E+06)	= 0 joules
0	kilowatt-hrs	kg-cals	x (860.5)	= 0 kg-cals
0	kilowatt-hrs	kg-meters	x (3.67E+05)	= 0 kg-meters
0	kilowatt-hrs	lbs of water evap. at 212F	x (3.53)	= 0 lbs of H2O evap. @ 212 °F
0	kilowatt-hrs	lbs of water ^ from 62-212F	x (22.75)	= 0 lbs of water ^ from 62-212 °F
0	knots	feet/hr	x (6080)	= 0 feet/hr
0	knots	kilometers/hr	x (1.8532)	= 0 km/hr
0	knots	nautical miles/hr	x (1)	= 0 nautical miles/hr
0	knots	statute miles/hr	x (1.151)	= 0 statute miles/hr
0	knots	yards/hr	x (2027)	= 0 yards/hr
0	knots	feet/sec	x (1.689)	= 0 feet/sec

UNIT CONVERSION FACTORS

Value	Convert From	Convert To	Multiply By	Result
0	league	miles (approx.)	x (3)	= 0 miles (approx.)
0	light-year	astronomical unit	x (63239.7)	= 0 astronomical unit
0	light-year	miles	x (5.90E+12)	= 0 miles
0	light-year	kilometers	x (9.46E+12)	= 0 km
0	lines/sq cm	gausses	x (1)	= 0 gaussses
0	lines/sq in	gauses	x (0.155)	= 0 gaussses
0	lines/sq in	webers/sq cm	x (1.55E-09)	= 0 webers/sq cm
0	lines/sq in	webers/sq in	x (1.00E-08)	= 0 webers/sq in
0	lines/sq in	webers/sq meter	x (1.55E-05)	= 0 webers/sq meter
0	links (engineer's)	inches	x (12)	= 0 in.
0	links (surveyor's)	inches	x (7.92)	= 0 in.
0	liters	bushels (U.S. dry)	x (0.02838)	= 0 bushels (U.S. dry)
0	liters	cu cm	x (1000)	= 0 cu cm
0	liters	cu feet	x (0.03531)	= 0 cu feet
0	liters	cu inches	x (61.02)	= 0 cu in.
0	liters	cu meters	x (0.001)	= 0 cu meters
0	liters	cu yards	x (1.31E-03)	= 0 cu yards
0	liters	gallons (U.S. liq.)	x (0.2642)	= 0 gals (U.S. liq.)
0	liters	pints (U.S. liq.)	x (2.113)	= 0 pints (U.S. liq.)
0	liters	quarts (U.S. liq.)	x (1.057)	= 0 quarts (U.S. liq.)
0	liters/min	cu ft/sec	x (5.89E-04)	= 0 cu ft/sec
0	liters/min	gals/sec	x (4.40E-03)	= 0 gals/sec
0	lumen	spherical candle power	x (0.07958)	= 0 spher candle power
0	lumen	watt	x (0.001496)	= 0 watt
0	lumens/sq ft	foot-candles	x (1)	= 0 foot-candles
0	lumens/sq ft	lumen/sq meter	x (10.76)	= 0 lumen/sq meter
0	lux	foot-candles	x (0.0929)	= 0 foot-candles

UNIT CONVERSION FACTORS

Value	Convert From	Convert To	Multiply By	Result
0	maxwells	kilolines	x (0.001)	= 0 kilolines
0	maxwells	webers	x (1.00E-08)	= 0 webers
0	megalines	maxwells	x (1.00E+06)	= 0 maxwells
0	megapascal	atmospheres	x (9.8692)	= 0 atmospheres
0	megapascal	bar	x (10)	= 0 bar
0	megapascal	ft. of water	x (335.13)	= 0 ft. of H2O
0	megapascal	in. of mercury	x (295.3)	= 0 in. of Hg
0	megapascal	in. of water	x (4021.56)	= 0 in. of H2O
0	megapascal	kg/square cm	x (10.1972)	= 0 kg/sq. cm
0	megapascal	kg/square meter	x (101972)	= 0 kg/sq. m.
0	megapascal	millimeter of mercury	x (7500.62)	= 0 mm Hg
0	megapascal	pounds/square foot	x (20885.5)	= 0 lb/sq. ft.
0	megapascal	pounds/square inch	x (145.038)	= 0 lb/sq. in.
0	megohms	microhms	x (1.00E+12)	= 0 microhms
0	megohms	ohms	x (1.00E+06)	= 0 ohms
0	meters	centimeters	x (100)	= 0 centimeters
0	meters	feet	x (3.281)	= 0 feet
0	meters	inches	x (39.37)	= 0 in.
0	meters	kilometers	x (0.001)	= 0 km
0	meters	miles (nautical)	x (5.40E-04)	= 0 miles (nautical)
0	meters	miles (statute)	x (6.21E-04)	= 0 miles (statute)
0	meters	millimeters	x (1000)	= 0 mms
0	meters	yards	x (1.094)	= 0 yards
0	meters/min	cms/sec	x (1.667)	= 0 cms/sec
0	meters/min	feet/min	x (3.281)	= 0 feet/min
0	meters/min	feet/sec	x (0.05468)	= 0 feet/sec
0	meters/min	kms/hr	x (0.06)	= 0 kms/hr
0	meters/min	knots	x (0.03238)	= 0 knots
0	meters/min	miles/hr	x (0.03728)	= 0 miles/hr
0	meters/sec	feet/min	x (196.8)	= 0 feet/min
0	meters/sec	feet/sec	x (3.281)	= 0 feet/sec
0	meters/sec	kilometers/hr	x (3.6)	= 0 km/hr
0	meters/sec	kilometers/min	x (0.06)	= 0 km/min
0	meters/sec	miles/hr	x (2.237)	= 0 miles/hr
0	meters/sec	miles/min	x (0.03728)	= 0 miles/min
0	meters/sec/sec	cms/sec/sec	x (100)	= 0 cms/sec/sec
0	meters/sec/sec	ft/sec/sec	x (3.281)	= 0 ft/sec/sec
0	meters/sec/sec	kms/hr/sec	x (3.6)	= 0 kms/hr/sec
0	meters/sec/sec	miles/hr/sec	x (2.237)	= 0 miles/hr/sec
0	meter-kilograms	cm-dynes	x (9.81E+07)	= 0 cm-dynes
0	meter-kilograms	cm-grams	x (1.00E+05)	= 0 cm-grams
0	meter-kilograms	pound-feet	x (7.233)	= 0 pound-feet
0	microfarad	farads	x (1.00E-06)	= 0 farads
0	micrograms	grams	x (1.00E-06)	= 0 grams
0	microhms	megohms	x (1.00E-12)	= 0 megohms
0	microhms	ohms	x (1.00E-06)	= 0 ohms
0	microliters	liters	x (1.00E-06)	= 0 liters
0	microns	meters	x (1.00E-06)	= 0 meters
0	miles (nautical)	feet	x (6080.27)	= 0 feet
0	miles (nautical)	kilometers	x (1.853)	= 0 km
0	miles (nautical)	meters	x (1853)	= 0 meters
0	miles (nautical)	miles (statute)	x (1.1516)	= 0 miles (statute)
0	miles (nautical)	yards	x (2027)	= 0 yards
0	miles (statute)	centimeters	x (1.61E+05)	= 0 centimeters
0	miles (statute)	feet	x (5280)	= 0 feet
0	miles (statute)	inches	x (6.34E+04)	= 0 in.
0	miles (statute)	kilometers	x (1.609)	= 0 km
0	miles (statute)	meters	x (1609)	= 0 meters
0	miles (statute)	miles (nautical)	x (0.8684)	= 0 miles (nautical)
0	miles (statute)	yards	x (1760)	= 0 yards
0	miles/hr	cms/sec	x (44.7)	= 0 cms/sec
0	miles/hr	feet/min	x (88)	= 0 feet/min
0	miles/hr	feet/sec	x (1.467)	= 0 feet/sec
0	miles/hr	kms/hr	x (1.609)	= 0 kms/hr
0	miles/hr	kms/min	x (0.02682)	= 0 kms/min
0	miles/hr	knots	x (0.8684)	= 0 knots
0	miles/hr	meters/min	x (26.82)	= 0 meters/min
0	miles/hr	miles/min	x (0.01667)	= 0 miles/min
0	miles/hr/sec	cms/sec/sec	x (44.7)	= 0 cms/sec/sec
0	miles/hr/sec	feet/sec/sec	x (1.467)	= 0 feet/sec/sec
0	miles/hr/sec	kms/hr/sec	x (1.609)	= 0 kms/hr/sec
0	miles/hr/sec	meters/sec/sec	x (0.447)	= 0 meters/sec/sec
0	miles/min	cms/sec	x (2682)	= 0 cms/sec
0	miles/min	feet/sec	x (88)	= 0 feet/sec
0	miles/min	kms/min	x (1.609)	= 0 kms/min
0	miles/min	knots/min	x (0.8684)	= 0 knots/min
0	miles/min	miles/hr	x (60)	= 0 miles/hr
0	mil-foot	cu inches	x (9.43E-06)	= 0 cu in.
0	millers	kilograms	x (1000)	= 0 kgs
0	millimicrons	meters	x (1.00E-09)	= 0 meters
0	milligrams	grams	x (0.01543236)	= 0 grams
0	milligrams	grams	x (0.001)	= 0 grams
0	milligrams/liter	parts/million	x (1)	= 0 parts/million
0	millihenries	henries	x (0.001)	= 0 henries
0	milliliters	liters	x (0.001)	= 0 liters
0	millimeters	centimeters	x (0.1)	= 0 centimeters
0	millimeters	feet	x (3.28E-03)	= 0 feet
0	millimeters	inches	x (0.03937)	= 0 in.
0	millimeters	kilometers	x (1.00E-06)	= 0 km
0	millimeters	meters	x (0.001)	= 0 meters
0	millimeters	miles	x (6.21E-07)	= 0 miles
0	millimeters	mls	x (39.37)	= 0 mls
0	millimeters	yards	x (1.09E-03)	= 0 yards
0	millimeters mercury	atmospheres	x (0.0013158)	= 0 atmospheres
0	millimeters mercury	bar	x (0.001333)	= 0 bar
0	millimeters mercury	ft. of water	x (0.04468)	= 0 ft. of H2O
0	millimeters mercury	in. of mercury	x (0.03937)	= 0 in. of Hg
0	millimeters mercury	in. of water	x (0.53616)	= 0 in. of H2O
0	millimeters mercury	kg/square cm	x (0.0013595)	= 0 kg/sq. cm.
0	millimeters mercury	kg/square meter	x (13.59509)	= 0 kg/sq. m.
0	millimeters mercury	megapascal	x (0.0001333)	= 0 MPa
0	millimeters mercury	pounds/square foot	x (2.7845)	= 0 lb/sq. ft.
0	millimeters mercury	pounds/square inch	x (0.0193368)	= 0 lb/sq. in.
0	million gals/day	cu ft/sec	x (1.54723)	= 0 cu ft/sec
0	mls	centimeters	x (2.54E-03)	= 0 centimeters
0	mls	feet	x (8.33E-05)	= 0 feet
0	mls	inches	x (0.001)	= 0 in.
0	mls	kilometers	x (2.54E-03)	= 0 km
0	mls	yards	x (2.78E-05)	= 0 yards
0	minims (British)	cubic cm	x (0.059192)	= 0 cu. cm
0	minims (US fluid)	cubic cm	x (0.061612)	= 0 cu. cm
0	minutes (angles)	degrees	x (0.01667)	= 0 degrees
0	minutes (angles)	quadrants	x (1.85E-04)	= 0 quadrants
0	minutes (angles)	radians	x (2.91E-04)	= 0 radians
0	minutes (angles)	seconds	x (60)	= 0 secs

UNIT CONVERSION FACTORS

Value	Convert From	Convert To	Multiply By	Result
0	nepers	decibals	x (8.686) =	0 decibals
0	newton	dynes	x (1.00E+05) =	0 dynes
0	ohm (international)	ohm (absolute)	x (1.0005) =	0 ohm (abs)
0	ohms	megohms	x (1.00E-06) =	0 megohms
0	ohms	microhms	x (1.00E+06) =	0 microhms
0	ounces	drams	x (16) =	0 drams
0	ounces	grains	x (437.5) =	0 grains
0	ounces	grams	x (28.349527) =	0 grams
0	ounces	pounds	x (0.0625) =	0 lbs.
0	ounces	ounces (troy)	x (0.9115) =	0 ounces (troy)
0	ounces	tons (long)	x (2.79E-05) =	0 tons (long)
0	ounces	tons (metric)	x (2.84E-05) =	0 tons (metric)
0	ounces (fluid)	cu inches	x (1.805) =	0 cu in.
0	ounces (fluid)	liters	x (0.02957) =	0 liters
0	ounces (troy)	grains	x (480) =	0 grains
0	ounces (troy)	grams	x (31.103481) =	0 grams
0	ounces (troy)	ounces (avoirdupois)	x (1.09714) =	0 ounces (avoir)
0	ounces (troy)	pennyweights (troy)	x (20) =	0 pennyweights (troy)
0	ounces (troy)	pounds (troy)	x (0.08333) =	0 lbs. (troy)
0	ounces/sq inch	dynes/sq cm	x (4309) =	0 dynes/sq cm
0	ounces/sq inch	pounds/sq in	x (0.0625) =	0 lbs./sq in

UNIT CONVERSION FACTORS

Value	Convert From	Convert To	Multiply By	Result
0	parsec	miles	x (1.90E+13)	= 0 miles
0	parsec	kilometers	x (3.08E+13)	= 0 km
0	parts/million	grains/U.S. gal.	x (0.0584)	= 0 grains/U.S. gal.
0	parts/million	grains/imperial gal	x (0.07016)	= 0 grains/imp gal
0	parts/million	pounds/million gal	x (8.345)	= 0 lbs./million gal
0	pecks (British)	cubic inches	x (554.6)	= 0 cu. in.
0	pecks (British)	liters	x (9.091901)	= 0 liters
0	pecks (US)	bushels	x (0.25)	= 0 bushels
0	pecks (US)	cubic inches	x (537.605)	= 0 cu. in.
0	pecks (US)	liters	x (8.809582)	= 0 liters
0	pecks (US)	quarts (dry)	x (8)	= 0 quarts (dry)
0	pennyweights (troy)	grains	x (24)	= 0 grains
0	pennyweights (troy)	ounces (troy)	x (0.05)	= 0 ounces (troy)
0	pennyweights (troy)	grams	x (1.55517)	= 0 grams
0	pennyweights (troy)	pounds (troy)	x (4.17E-03)	= 0 lbs. (troy)
0	pints (dry)	cu inches	x (33.6)	= 0 cu in.
0	pints (liquid)	cu cm	x (473.2)	= 0 cu cm
0	pints (liquid)	cu feet	x (0.01671)	= 0 cu feet
0	pints (liquid)	cu inches	x (28.87)	= 0 cu in.
0	pints (liquid)	cu meters	x (4.73E-04)	= 0 cu meters
0	pints (liquid)	cu yards	x (6.19E-04)	= 0 cu yards
0	pints (liquid)	gallons	x (0.125)	= 0 gals
0	pints (liquid)	liters	x (0.4732)	= 0 liters
0	pints (liquid)	quarts (liquid)	x (0.5)	= 0 quarts (liquid)
0	Plank's quantum	erg-second	x (6.62E-27)	= 0 erg-sec
0	poise	gram/cm sec	x (1)	= 0 gram/cm sec
0	pounds (avoirdupois)	ounces (troy)	x (14.5833)	= 0 ounces (troy)
0	poundals	dynes	x (13826)	= 0 dynes
0	poundals	grams	x (14.1)	= 0 grams
0	poundals	joules/cm	x (1.38E-03)	= 0 joules/cm
0	poundals	joules/meter (newtons)	x (0.1383)	= 0 joules/m (newtons)
0	poundals	kilograms	x (0.0141)	= 0 kgs
0	poundals	pounds	x (0.03108)	= 0 lbs.
0	pounds	drams	x (256)	= 0 drams
0	pounds	dynes	x (4.45E+05)	= 0 dynes
0	pounds	grains	x (7000)	= 0 grains
0	pounds	grams	x (453.5924)	= 0 grams
0	pounds	joules/cm	x (0.04448)	= 0 joules/cm
0	pounds	joules/meter (newtons)	x (4.448)	= 0 joules/m (newtons)
1	pounds	kilograms	x (0.4536)	= 0.4536 kgs
0	pounds	ounces	x (16)	= 0 ounces
0	pounds	ounces (troy)	x (14.5833)	= 0 ounces (troy)
0	pounds	poundals	x (32.17)	= 0 poundals
0	pounds	pounds (troy)	x (1.21528)	= 0 lbs. (troy)
0	pounds	tons (short)	x (0.0005)	= 0 tons (short)
0	pounds (troy)	grains	x (5760)	= 0 grains
0	pounds (troy)	grams	x (373.24177)	= 0 grams
0	pounds (troy)	ounces (avoirdupois)	x (13.1657)	= 0 ounces (avoir)
0	pounds (troy)	ounces (troy)	x (12)	= 0 ounces (troy)
0	pounds (troy)	pennyweights (troy)	x (240)	= 0 pennyweights (troy)
0	pounds (troy)	pounds (avoirdupois)	x (0.822857)	= 0 lbs. (avoir)
0	pounds (troy)	tons (long)	x (3.67E-04)	= 0 tons (long)
0	pounds (troy)	tons (metric)	x (3.73E-04)	= 0 tons (metric)
0	pounds (troy)	tons (short)	x (4.11E-04)	= 0 tons (short)
0	pounds of water	cu feet	x (0.01602)	= 0 cu feet
0	pounds of water	cu inches	x (27.68)	= 0 cu in.
0	pounds of water	gallons	x (0.1198)	= 0 gals
0	pounds of water/min	cu ft/sec	x (2.67E-04)	= 0 cu ft/sec
0	pound-feet	cm-dynes	x (1.36E+07)	= 0 cm-dynes
0	pound-feet	cm-grams	x (13825)	= 0 cm-grams
0	pound-feet	meter-kgs	x (0.1383)	= 0 meter-kgs
0	pounds/cu ft	grams/cu cm	x (0.01602)	= 0 grams/cu cm
0	pounds/cu ft	kgs/cu meter	x (16.02)	= 0 kgs/cu meter
0	pounds/cu ft	pounds/cu in	x (5.79E-04)	= 0 lbs./cu in
0	pounds/cu ft	pounds/mil-foot	x (5.46E-09)	= 0 lbs./mil-foot
0	pounds/cu in	gms/cu cm	x (27.68)	= 0 gms/cu cm
0	pounds/cu in	kgs/cu meter	x (2.77E+04)	= 0 kgs/cu meter
0	pounds/cu in	pounds/cu ft	x (1728)	= 0 lbs./cu ft
0	pounds/cu in	pounds/mil-foot	x (9.43E-06)	= 0 lbs./mil-foot
0	pounds/ft	kgs/meter	x (1.488)	= 0 kgs/meter
0	pounds/in	gms/cm	x (178.6)	= 0 gms/cm
0	pounds/mil-foot	gms/cu cm	x (2.31E+06)	= 0 gms/cu cm
0	pounds/sq ft	atmospheres	x (4.73E-04)	= 0 atmospheres
0	pounds/sq ft	bar	x (0.000479)	= 0 bar
0	pounds/sq ft	feet of water	x (0.01602)	= 0 feet of water
0	pounds/sq ft	inches of mercury	x (0.01414)	= 0 in. of Hg
0	pounds/sq ft	inches of water	x (0.1926)	= 0 in. of H2O
0	pounds/sq ft	kgs/sq meter	x (4.88241)	= 0 kgs/sq meter
0	pounds/sq ft	megapascal	x (0.0000479)	= 0 megapascal
0	pounds/sq ft	millimeter Hg	x (0.35913)	= 0 mm Hg
0	pounds/sq ft	pounds/sq in	x (6.94E-03)	= 0 lbs./sq in
0	pounds/sq in	atmospheres	x (0.068046)	= 0 atmospheres
0	pounds/sq in	bar	x (0.06895)	= 0 bar
0	pounds/sq in	feet of water	x (2.3106)	= 0 feet of water
0	pounds/sq in	inches of mercury	x (2.03602)	= 0 in. of Hg
0	pounds/sq in	inches of water	x (27.7276)	= 0 in. of H2O
0	pounds/sq in	kgs/sq cm	x (0.070307)	= 0 kgs/sq cm
0	pounds/sq in	kgs/sq meter	x (703.07)	= 0 kgs/sq meter
0	pounds/sq in	megapascal	x (0.006895)	= 0 megapascal
0	pounds/sq in	millimeter Hg	x (51.715)	= 0 mm Hg
0	pounds/sq in	pounds/sq ft	x (144)	= 0 lbs./sq ft

UNIT CONVERSION FACTORS

Value	Convert From	Convert To	Multiply By	Result
0	quadrants (angle)	degrees	x (90)	degrees
0	quadrants (angle)	minutes	x (5400)	minutes
0	quadrants (angle)	radians	x (1.571)	radians
0	quadrants (angle)	seconds	x (3.24E+05)	secs
0	quarts (dry)	cu inches	x (67.2)	cu in.
0	quarts (liquid)	cu cms	x (946.4)	cu cms
0	quarts (liquid)	cu feet	x (0.03342)	cu feet
0	quarts (liquid)	cu inches	x (57.75)	cu in.
0	quarts (liquid)	cu meters	x (9.46E-04)	cu meters
0	quarts (liquid)	cu yards	x (1.24E-03)	cu yards
0	quarts (liquid)	gallons	x (0.25)	gals
0	quarts (liquid)	liters	x (0.9463)	liters
0	radians	degrees	x (57.29578)	degrees
0	radians	minutes	x (3438)	minutes
0	radians	seconds	x (2.06E+05)	secs
0	radians/sec	degrees/sec	x (57.29578)	degrees/sec
0	radians/sec	revolutions/min	x (9.549)	revolutions/min
0	radians/sec	revolutions/sec	x (0.1592)	revolutions/sec
0	radians/sec/sec	revs./min/min	x (572.9578)	revs./min/min
0	radians/sec/sec	revs./min/sec	x (9.549)	revs./min/sec
0	radians/sec/sec	revs./sec/sec	x (0.1592)	revs./sec/sec
0	revolutions	degrees	x (360)	degrees
0	revolutions	quadrants	x (4)	quadrants
0	revolutions	radians	x (6.283)	radians
0	revolutions/min	degrees/sec	x (6)	degrees/sec
0	revolutions/min	radians/sec	x (0.1047)	radians/sec
0	revolutions/min	revs./sec	x (0.01667)	revs./sec
0	revolutions/min/min	radians/sec/sec	x (1.75E-03)	radians/sec/sec
0	revolutions/min/min	revs/min/min	x (0.01667)	revs/min/min
0	revolutions/min/min	revs/sec/sec	x (2.78E-04)	revs/sec/sec
0	revolutions/sec	degrees/sec	x (360)	degrees/sec
0	revolutions/sec	radians/sec	x (6.283)	radians/sec
0	revolutions/sec	revs/min	x (60)	revs/min
0	revolutions/sec/sec	radians/sec/sec	x (6.283)	radians/sec/sec
0	revolutions/sec/sec	revs/min/min	x (3600)	revs/min/min
0	revolutions/sec/sec	revs/min/sec	x (60)	revs/min/sec
0	rod	chain (Gunter's)	x (0.25)	chain (Gunter's)
0	rod	meters	x (5.029)	meters
0	rods (surveyor's meas.)	yards	x (5.5)	yards
0	rods	feet	x (16.5)	feet

UNIT CONVERSION FACTORS

Value	Convert From	Convert To	Multiply By	Result
0	scruples	grains	x (20)	= 0 grains
0	seconds (angle)	degrees	x (2.78E-04)	= 0 degrees
0	seconds (angle)	minutes	x (0.01666667)	= 0 minutes
0	seconds (angle)	quadrants	x (3.09E-06)	= 0 quadrants
0	seconds (angle)	radians	x (4.85E-06)	= 0 radians
0	slug	kilogram	x (14.59)	= 0 kg
0	slug	pounds	x (32.17)	= 0 lbs.
0	span	inch	x (9)	= 0 in.
0	sphere	steradians	x (12.57)	= 0 steradians
0	square centimeters	circular mils	x (1.97E+05)	= 0 circular mils
0	square centimeters	square feet	x (1.08E-03)	= 0 sq feet
0	square centimeters	square inches	x (0.155)	= 0 sq in.
0	square centimeters	square meters	x (0.0001)	= 0 sq meters
0	square centimeters	sq miles	x (3.86E-11)	= 0 sq miles
0	square centimeters	sq millimeters	x (100)	= 0 sq mms
0	square centimeters	sq yards	x (1.20E-04)	= 0 sq yards
0	square feet	acres	x (2.30E-05)	= 0 acres
0	square feet	circular mils	x (1.83E+08)	= 0 circular mils
0	square feet	sq cms	x (929)	= 0 sq cms
0	square feet	sq inches	x (144)	= 0 sq in.
0	square feet	sq meters	x (0.0929)	= 0 sq meters
0	square feet	sq miles	x (3.59E-08)	= 0 sq miles
0	square feet	sq millimeters	x (9.29E+04)	= 0 sq mms
0	square feet	sq yards	x (0.1111)	= 0 sq yards
0	square inches	circular mils	x (1.27E+06)	= 0 circular mils
0	square inches	sq cms	x (6.452)	= 0 sq cms
0	square inches	sq feet	x (6.94E-03)	= 0 sq feet
0	square inches	sq millimeters	x (645.2)	= 0 sq mms
0	square inches	sq mils	x (1.00E+06)	= 0 sq mils
0	square inches	sq yards	x (7.72E-04)	= 0 sq yards
0	square kilometers	acres	x (247.1)	= 0 acres
0	square kilometers	sq cms	x (1.00E+10)	= 0 sq cms
0	square kilometers	sq ft	x (1.08E+07)	= 0 sq ft
0	square kilometers	sq inches	x (1.55E+09)	= 0 sq in.
0	square kilometers	sq meters	x (1.00E+06)	= 0 sq meters
0	square kilometers	sq miles	x (0.3861)	= 0 sq miles
0	square kilometers	sq yards	x (1.20E+06)	= 0 sq yards
0	square meters	acres	x (2.47E-04)	= 0 acres
0	square meters	sq cms	x (1.00E+04)	= 0 sq cms
0	square meters	sq feet	x (10.76)	= 0 sq feet
0	square meters	sq inches	x (1550)	= 0 sq in.
0	square meters	sq miles	x (3.86E-07)	= 0 sq miles
0	square meters	sq millimeters	x (1.00E+06)	= 0 sq mms
0	square meters	sq yards	x (1.196)	= 0 sq yards
0	square miles	acres	x (640)	= 0 acres
0	square miles	sq feet	x (2.79E+07)	= 0 sq feet
0	square miles	sq kms	x (2.59)	= 0 sq kms
0	square miles	sq meters	x (2.59E+06)	= 0 sq meters
0	square miles	sq yards	x (3.10E+06)	= 0 sq yards
0	square millimeters	circular mils	x (1973)	= 0 circular mils
0	square millimeters	sq cms	x (0.01)	= 0 sq cms
0	square millimeters	sq feet	x (1.08E-05)	= 0 sq feet
0	square millimeters	sq inches	x (1.55E-03)	= 0 sq in.
0	square mils	circular mils	x (1.273)	= 0 circular mils
0	square mils	sq cms	x (6.45E-06)	= 0 sq cms
0	square mils	sq inches	x (1.00E-06)	= 0 sq in.
0	square yards	acres	x (2.07E-04)	= 0 acres
0	square yards	sq cms	x (8361)	= 0 sq cms
0	square yards	sq feet	x (9)	= 0 sq feet
0	square yards	sq inches	x (1296)	= 0 sq in.
0	square yards	sq meters	x (0.8361)	= 0 sq meters
0	square yards	sq miles	x (3.23E-07)	= 0 sq miles
0	square yards	sq millimeters	x (8.36E+05)	= 0 sq mms

UNIT CONVERSION FACTORS

Value	Convert From	Convert To	Multiply By	Result
0	tablespoons (metric)	milliliter	x (15) =	0 milliliter
0	tablespoons (US)	milliliter	x (14.79) =	0 milliliter
0	teaspoons (metric)	milliliter	x (5) =	0 milliliter
0	teaspoons (US)	cubic cms	x (4.93) =	0 cu. cms
0	tons (long)	kilograms	x (1016) =	0 kgs
0	tons (long)	pounds	x (2240) =	0 lbs.
0	tons (long)	tons (short)	x (1.12) =	0 tons (short)
0	tons (metric)	kilograms	x (1000) =	0 kgs
0	tons (metric)	pounds	x (2205) =	0 lbs.
0	tons (metric)	kilograms	x (907.1848) =	0 kgs
0	tons (short)	ounces	x (32000) =	0 ounces
0	tons (short)	ounces (troy)	x (29166.66) =	0 ounces (troy)
0	tons (short)	pounds	x (2000) =	0 lbs.
0	tons (short)	pounds (troy)	x (2430.56) =	0 lbs. (troy)
0	tons (short)	tons (long)	x (0.89287) =	0 tons (long)
0	tons (short)	tons (metric)	x (0.9078) =	0 tons (metric)
0	tons (short)/sq ft	kgs/sq meter	x (9765) =	0 kgs/sq meter
0	tons (short)/sq ft	pounds/sq in	x (2000) =	0 lbs./sq in
0	tons of water/24 hrs	pounds of water/hr	x (83.333) =	0 lbs. of water/hr
0	tons of water/24 hrs	gallons/min	x (0.16643) =	0 gals/min
0	tons of water/24 hrs	cu ft/hr	x (1.3349) =	0 cu ft/hr
0	volt inch	volt/cm	x (0.3937) =	0 volt/cm
0	volt (absolute)	statvolts	x (0.003336) =	0 statvolts

UNIT CONVERSION FACTORS

Value	Convert From	Convert To	Multiply By	Result
0	watts	Btu/hr	x (3.4129)	= 0 Btu/hr
0	watts	Btu/min	x (0.05688)	= 0 Btu/min
0	watts	erg/sec	x (107)	= 0 erg/sec
0	watts	foot-lbs/min	x (44.27)	= 0 foot-lbs/min
0	watts	foot-lbs/sec	x (0.7378)	= 0 foot-lbs/sec
0	watts	horsepower	x (1.34E-03)	= 0 hp
0	watts	horsepower (metric)	x (1.36E-03)	= 0 hp (metric)
0	watts	kg-calories/min	x (0.01433)	= 0 kg-cals/min
0	watts	kilowatts	x (0.001)	= 0 kws
0	watts (absolute)	Btu (mean)/min	x (0.056884)	= 0 Btu (mean)/min
0	watts (absolute)	joules/sec	x (1)	= 0 joules/sec
0	watt-hours	Btu	x (3.413)	= 0 Btu
0	watt-hours	ergs	x (3.60E+10)	= 0 ergs
0	watt-hours	foot-pounds	x (2656)	= 0 foot-lbs.
0	watt-hours	gram-calories	x (859.85)	= 0 gram-cals
0	watt-hours	horsepower-hrs	x (1.34E-03)	= 0 hp-hrs
0	watt-hours	kilogram-calories	x (0.8605)	= 0 kg-cals
0	watt-hours	kiloram-meters	x (367.2)	= 0 kiloram-meters
0	watt-hours	kilowatt-hrs	x (0.001)	= 0 kw-hrs
0	watt (international)	watt (absolute)	x (1.0002)	= 0 watt (abs)
0	webers	maxwells	x (1.00E+08)	= 0 maxwells
0	webers	kilolines	x (1.00E+05)	= 0 kilolines
0	webers/sq in	gausses	x (1.55E+07)	= 0 gaussess
0	webers/sq in	lines/sq in	x (1.00E+08)	= 0 lines/sq in
0	webers/sq in	webers/sq cm	x (0.155)	= 0 webers/sq cm
0	webers/sq in	webers/sq meter	x (1550)	= 0 webers/sq meter
0	webers/sq meter	gausses	x (1.00E+04)	= 0 gaussess
0	webers/sq meter	lines/sq in	x (6.45E+04)	= 0 lines/sq in
0	webers/sq meter	webers/sq cm	x (1.00E-04)	= 0 webers/sq cm
0	webers/sq meter	webers/sq in	x (6.45E-04)	= 0 webers/sq in
0	week	day	x (7)	= 0 day
0	week	hour	x (168)	= 0 hour
0	week	minute (time)	x (10080)	= 0 minute (time)
0	week	month	x (0.2299795)	= 0 month
0	week	second	x (6.048E+05)	= 0 sec
0	yards	centimeters	x (91.44)	= 0 centimeters
0	yards	fathom	x (0.5)	= 0 fathom
0	yards	foot	x (3)	= 0 foot
0	yards	inches	x (36)	= 0 in.
0	yards	kilometers	x (9.14E-04)	= 0 km
0	yards	meters	x (0.9144)	= 0 meters
0	yards	miles (nautical)	x (4.93E-04)	= 0 miles (nautical)
0	yards	miles (statute)	x (5.68E-04)	= 0 miles (statute)
0	yards	millimeters	x (914.4)	= 0 mms
0	year (mean of 4 year period)	day	x (365.25)	= 0 day
0	year (mean of 4 year period)	hour	x (8766)	= 0 hour
0	year (mean of 4 year period)	minute (time)	x (5.26E+05)	= 0 minute (time)
0	year (mean of 4 year period)	second (time)	x (3.16E+07)	= 0 sec (time)
0	year (mean of 4 year period)	week	x (52.17857)	= 0 week

CONVERSIONS GASES - PHYSICAL CONSTANTS

REFERENCES: MARKS' MECHANICAL ENGINEER'S & PERRY'S CHEMICAL ENGINEERS HANDBOOK(S)

NOTE: Always begin a new case by retrieving the original file. Direct entry of data in cells that originally contain table lookups could cause functions to be lost, or incorrect calculations.

- 1.) Enter the identification at [C4].
 - 2.) Enter the gas name at [C5] (reference only).
 - 3.) Enter the gas flow at [F5].
- The calculated rate is determined and shown as appropriate.

Print out using direct Excel commands. This application is provided by Chemical Engineers Resource Website, visit cheresources.com for additional selections.

Print out using direct EXCEL commands.

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Consistent with GOOD ENGINEERING PRACTICE, the burden rests with the USER of these spreadsheets to review ALL calculations, and assumptions. The USER IS FULLY RESPONSIBLE for the results or decisions based on calculations.

This Spreadsheet Requires MACROS to be ENABLED to ASSURE proper operation. See the Workbook Help Sheet for Additional Instructions on Use.

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Gases Physical Constants ACFM Known, Find SCFM And Lb/Hr
--

SERVICE: Emergency Air Compressor Performance

gas: Air

flow: 194

ACFM

known property: 28.94 MW, mol. wt.

S.G. = 1.00 specific gravity

P1 - in = 128 psia

P1a = 142.70 psia

P2a = 14.70 psia, standard conditions

T1 - in = 100 °F, Fahrenheit

T1a = 559.67 °R

T2a = 530.00 °R, standard conditions

$$\text{SCFM} := \text{ACFM} \cdot \left(\frac{T_{2a}}{T_{1a}} \right) \cdot \left(\frac{P_{1a}}{P_{2a}} \right)$$

W = 1,783.4 scfm or 107,005 SCFH

and

$$\text{LB}_{\text{HR}} := \text{ACFM} \cdot 4.5 \cdot \text{SG} \cdot \left(\frac{T_{2a}}{T_{1a}} \right) \cdot \left(\frac{P_{1a}}{P_{2a}} \right)$$

W = 8,025.4 lb/hr

GASES PHYSICAL CONSTANTS SCFM KNOWN, find LB/HR

SERVICE: Emergency Air Compressor Performance

gas: Nitrogen

flow: 600

SCFM

known property:

28

MW, mol. wt. ▾

S.G. = 0.97 specific gravity

$$LB_{HR} := SCFM \cdot 4.5 \cdot SG$$

$$W = 2,612.3 \text{ lb/hr of Nitrogen}$$

Gases Physical Constants Lb/Hr Known, Find ACFM and SCFM
--

SERVICE: Emergency Air Compressor Performance

gas: Air

flow: 3500

lb/hr

known property:	1	SG, spec. gr.	S.G. =	1.000	specific gravity
P1 - in =	29	psig	P1a =	14.7	psia
T1 - in =	70	°F, Fahrenheit	P2a =	43.7	psia, standard conditions
			T1a =	530	°R
			T2a =	530	°R, standard conditions

$$\text{ACFM} := \left(\frac{\text{LB HR}}{4.5 \cdot \text{SG}} \right) \cdot \left(\frac{T_{2a}}{T_{1a}} \right) \cdot \left(\frac{P_{1a}}{P_{2a}} \right)$$

W = 261.469 acfm or 15,688 ACFH

$$\text{SCFM} := \frac{\text{LB HR}}{(4.5 \cdot \text{SG})}$$

W = 777.778 SCFM of Air

$$\text{SCFH} := \frac{\text{LB HR}}{(0.075 \cdot \text{SG})}$$

W = 46666.7 SCFH of Air

Gases Physical Constants M ³ Known, Find N m ³ /sec

SERVICE: Emergency Air Compressor Performance

gas: Nitrogen

flow: 500 m³/sec

known property:	0.97	SG, spec. gr. ▾	S.G. =	0.97	specific gravity
P1 - in =	300	kPa ▾	P1a =	300	kPa
			P2a =	101.33	kPa, standard conditions
T1 - in =	300	°K, Kelvin ▾	T1a =	300.00	°K
			T2a =	273.15	°K, standard conditions

$$W = m^3/s \cdot (T_2 / T_1) \cdot (P_1 / P_2)$$

$$W = 1,347.9 \text{ N-cu-m/sec or } 80,873 \text{ N-cu-m/min}$$

GASES PHYSICAL CONSTANTS M³ KNOWN, find kg/sec

SERVICE: Nitrogen Vaporizer Performance

gas: Nitrogen

flow: 114 M³/secknown property: 1.25 Density, kg/m³ S.G. = 0.97 specific gravity

$$W = \text{M}^3/\text{sec} \cdot 1.29 \cdot \text{S.G.}$$

$$W = 142.5 \text{ kg/sec of Nitrogen}$$