

Unit Conversion Factors

CONVERSION FACTORS

UNIT	X	CONSTANT	=	UNIT
British Thermal Unit (BTU)		778.0		foot-pound (ft-lb)
British Thermal Unit (BTU)		1054.35		joules (j)
British Thermal Unit (BTU)		0.293		watt-hours (w-hr)
centimeters (cm)		0.032808		feet (ft)
centimeters (cm)		0.3937		inches (in)
centimeters (cm)		0.00001		kilometers (km)
centimeters (cm)		0.010		meters (m)
centimeters (cm)		10.0		millimeters (mm)
circular mils (cmil)		0.00064516		circular millimeters
circular mils (cmil)		0.0000007854		inches ² (in ²)
circular mils (cmil)		0.00050671		square millimeters (mm ²)
circular mils (cmil)		0.7854		mils ²
cubic centimeter (cm ³)		0.000035314		cubic foot (ft ³)
cubic centimeter (cm ³)		0.061023		cubic inch (in ³)
cubic centimeter (cm ³)		0.000001		cubic meter (m ³)
cubic centimeter (cm ³)		0.00026417		gallons (gal)
cubic foot (ft ³)		1728.0		cubic in (in ³)
cubic foot (ft ³)		28317.847		cubic centimeter (cm ³)
cubic inch (in ³)		0.00057870		cubic feet (ft ³)
cubic inch (in ³)		0.000016387		cubic meter (m ³)
cubic inch (in ³)		16.387064		cubic centimeter (cm ³)
cubic meter (m ³)		1000000.0		centimeter (cm)
cubic meter (m ³)		35.314666		cubic foot (ft ³)
cubic meter (m ³)		264.17		gallons (gal)
feet (ft)		0.00018939		miles (mi)
feet (ft)		0.33333		yards (yd)
feet (ft)		12		inches (in)
feet (ft)		0.00030480		kilometer (km)
feet (ft)		0.30480		meters (m)
feet (ft)		30.480		centimeters (cm)
feet (ft)		304.80		millimeters (mm)
feet/pound (ft/lb)		0.00067197		meters/grams (m/g)
foot-pound (ft-lb)		0.001285		British Thermal Unit (BTU)
foot-pound (ft-lb)		1.356		joules (j)
foot-pound (ft-lb)		0.1383		kilogram/meter (kg/m)

UNIT	X	CONSTANT	=	UNIT
gallons (gal)		3.785411		liters (l)
gallons (gal)		0.13368		cubic foot (ft ³)
gallons (gal)		231.0		cubic inch (in ³)
gallons (gal)		3785.411		cubic centimeter (cm ³)
grams (g)		15.432		grains
gram/centimeter ³ (gm/cm ³)		0.0361275		pounds/in ³ (lb/in ³)
horsepower (hp)		33013.26		ft-lb/min
horsepower (hp)		550.0		ft-lb/sec
horsepower (hp)		745.7		watts (w)
inch (in)		0.027178		yards (yd)
inch (in)		0.083333		feet (ft)
inch (in)		0.00002540		kilometer (km)
inch (in)		0.025400		meter (m)
inch (in)		2.54000514		centimeter (cm)
inch (in)		25.4000514		millimeter (mm)
inch (in)		1000.0		mils
joules (j)		0.000948		British Thermal Unit (BTU)
joules (j)		10 ⁷		ergs
liters (l)		61.02374		cubic inch (in ³)
meters (m)		1.093611		yard (yd)
meters (m)		3.2808333		feet (ft)
meters (m)		39.37		inch (in)
meters (m)		100.0		centimeter (cm)
miles (mi)		1760.0		yards (yd)
miles (mi)		5280.0		feet (ft)
miles (mi)		1.6093		kilometer (km)
millimeters (mm)		0.0032808		feet (ft)
millimeters (mm)		0.03937		inch (in)
millimeters (mm)		0.001		meters (m)
millimeters (mm)		0.01		centimeters (cm)
millimeters (mm)		39.3701		mils
millimeters (mm)		1000.0		microns (μ)
watts (w)		44.25		ft-lb/minute
watts (w)		0.737562		ft-lb/sec
watts (w)		0.001341		horsepower
watt-hours (w-hr)		3.414462		British Thermal Unit (BTU)