

# Unit Conversion Factors

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UNIT	X CONSTANT	= UNIT	UNIT	X CONSTANT	= UNIT
BTU	778.0	foot-pound (ft-lb)	gallons	3.785332	liters (l)
BTU	1054.8	joules	gallons	0.13368	cubic foot (ft <sup>3</sup> )
BTU	0.293	watt-hours (w-hr)	gallons	231.0	cubic inch (in <sup>3</sup> )
centimeters (cm)	0.032808	feet (ft)	gallons	3785.332	cubic centimeter (cm <sup>3</sup> )
centimeters (cm)	0.3937	inches (in)	grams (g)	15.432	grains
centimeters (cm)	0.00001	kilometers (km)	gram/centimeter <sup>3</sup> (gm/cm <sup>3</sup> )	0.0361275	pounds/in <sup>3</sup> (lb/in <sup>3</sup> )
centimeters (cm)	0.010	meters (m)	horsepower (hp)	33000.0	ft-lb/min
centimeters (cm)	10.0	millimeters (mm)	horsepower (hp)	550.0	ft-lb/sec
circular mils	0.00064516	circular millimeters	horsepower (hp)	745.7	watts (w)
circular mils	0.0000007854	inches <sup>2</sup> (in <sup>2</sup> )	inch (in)	0.027178	yards (yd)
circular mils	0.00050671	square millimeters (mm <sup>2</sup> )	inch (in)	0.083333	feet (ft)
circular mils	0.7854	mils <sup>2</sup>	inch (in)	0.00002540	kilometer (km)
cubic centimeter (cm <sup>3</sup> )	0.000035314	cubic foot (ft <sup>3</sup> )	inch (in)	0.025400	meter (m)
cubic centimeter (cm <sup>3</sup> )	0.061023	cubic inch (in <sup>3</sup> )	inch (in)	2.54000514	centimeter (cm)
cubic centimeter (cm <sup>3</sup> )	0.000001	cubic meter (m <sup>3</sup> )	inch (in)	25.4000514	millimeter (mm)
cubic centimeter (cm <sup>3</sup> )	0.0026417	gallons	inch (in)	1000.0	mils
cubic foot (ft <sup>3</sup> )	1728.0	cubic inch (in <sup>3</sup> )	joules	0.000948	BTU
cubic foot (ft <sup>3</sup> )	28317.016	cubic centimeter (cm <sup>3</sup> )	joules	10 <sup>7</sup>	ergs
cubic inch (in <sup>3</sup> )	0.00057870	cubic feet (ft <sup>3</sup> )	liters (l)	61.0250	cubic inch (in <sup>3</sup> )
cubic inch (in <sup>3</sup> )	0.000016387	cubic meter (m <sup>3</sup> )	meters (m)	1.093611	yards (yd)
cubic inch (in <sup>3</sup> )	16.387162	cubic centimeter (cm <sup>3</sup> )	meters (m)	3.2808333	feet (ft)
cubic meter (m <sup>3</sup> )	1000000.0	centimeter (cm)	meters (m)	39.37	inch (in)
cubic meter (m <sup>3</sup> )	35.314456	cubic foot (ft <sup>3</sup> )	meters (m)	100.0	centimeter (cm)
cubic meter (m <sup>3</sup> )	264.17	gallons	miles	1760.0	yards (yd)
feet (ft)	0.00018939	miles	miles	5280.0	feet (ft)
feet (ft)	0.33333	yards (yd)	miles	1.6093	kilometer (km)
feet (ft)	12	inches (in)	millimeters (mm)	0.0032808	feet (ft)
feet (ft)	0.00030480	kilometers (km)	millimeters (mm)	0.03937	inch (in)
feet (ft)	0.30480	meters (m)	millimeters (mm)	0.001	meters (m)
feet (ft)	30.480	centimeters (cm)	millimeters (mm)	0.01	centimeters (cm)
feet (ft)	304.80	millimeters (mm)	millimeters (mm)	39.3701	mils
feet/pound (ft/lb)	0.00067197	meters/grams (m/g)	millimeters (mm)	1000.0	microns (u)
foot-pound (ft-lb)	0.001285	BTU	watts (w)	44.25	ft-lb/minute
foot-pound (ft-lb)	1.356	joules	watts (w)	0.737562	ft-lb/sec
foot-pound (ft-lb)	0.1383	kilogram/meter (kg/m)	watts (w)	0.001341	horsepower (hp)
			watt-hours (w-hr)	3.41266	BTU