



## Unit Conversion Factors

Unit	X Constant	=Unit
Btu	778.0	Foot-pound (ft-lb)
Btu	1054.8	Joules
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	0.00064516	Circular millimeters
Circular mils	0.0000007854	Inches <sup>2</sup> (in <sup>2</sup> )
Circular mils	0.00050671	Square Millimeters (mm <sup>2</sup> )
Circular mils	0.7854	Mils <sup>2</sup>
Circular mils	0.7854	Square mile
Cubic Centimeter (cm <sup>3</sup> )	0.000035314	Cubic foot (ft <sup>3</sup> )
Cubic Centimeter (cm <sup>3</sup> )	0.061023	Cubic inch (in <sup>3</sup> )
Cubic Centimeter (cm <sup>3</sup> )	0.000001	Cubic meter (m <sup>3</sup> )
Cubic Centimeter (cm <sup>3</sup> )	0.00026417	Gallons
Cubic Foot (ft <sup>3</sup> )	1728.0	Cubic inch (in <sup>3</sup> )
Cubic Foot (ft <sup>3</sup> )	28317.016	Cubic centimeter (cm <sup>3</sup> )
Cubic Foot	0.02832	Cubic meter
Cubic Inch (in <sup>3</sup> )	0.0005787	Cubic foot (ft <sup>3</sup> )
Cubic Inch (in <sup>3</sup> )	0.000016387	Cubic meter (m <sup>3</sup> )
Cubic Inch (in <sup>3</sup> )	16.387162	Cubic centimeter (cm <sup>3</sup> )
Cubic Meter (m <sup>3</sup> )	1000000.0	Centimeter (cm)
Cubic Meter (m <sup>3</sup> )	35.314456	Cubic foot (ft <sup>3</sup> )
Cubic Meter (m <sup>3</sup> )	264.17	Gallons
Feet (ft)	0.00018939	Miles
Feet (ft)	0.33333	Yards (yd)
Feet (ft)	12	Inches (in)
Feet (ft)	0.0003048	Kilometer (km)
Feet (ft)	0.3048	Meters (m)
Feet (ft)	30.48	Centimeter (cm)
Feet (ft)	304.8	Millimeters (mm)
Feet/Pound (ft/lb)	0.00067197	Meters/grams (m/g)
Feet/Pound (ft/lb)	0.001285	Btu
Feet/Pound (ft/lb)	1.356	Joules
Feet/Pound (ft/lb)	0.1383	Kilogram/meter (kg/m)
Gallons	3.785332	Liters (l)
Gallons	0.13368	Cubic foot (ft <sup>3</sup> )
Gallons	231.0	Cubic inch (in <sup>3</sup> )
Gallons	3785.332	Cubic centimeter (cm <sup>3</sup> )
Grams (g)	15.432	Grains
Gram	0.03527	Ounce
Gram/Centimeter <sup>3</sup> (gm/cm <sup>3</sup> )	0.0361275	Pounds/in <sup>3</sup> (lb/m <sup>3</sup> )

Unit	X Constant	=Unit
Horsepower (hp)	33000.0	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)	0.0000254	Kilometers (km)
Inch (in)	0.0254	Meters (m)
Inch (in)	2.54000514	Centimeters (cm)
Inch (in)	25.4000514	Millimeters (mm)
Inch (in)	1000.0	Mils
Joules	0.000948	Btu
Joules	10 <sup>7</sup>	Ergs
Kilogram	2.205	Pound
Kilogram/km	0.6214	Pound/kft
Kilometers	0.6214	Miles
Liters (l)	61.025	Cubic inch (in <sup>3</sup> )
Meters (m)	1.093611	Yards (yd)
Meters (m)	3.2808333	Feet (ft)
Meters (m)	39.37	Inch (in)
Meters (m)	100.0	Centimeters (cm)
Miles	1760.0	Yards (yd)
Miles	5280.0	Feet (ft)
Miles	1.6093	Kilometers (km)
Millimeters (mm)	0.0032808	Feet (ft)
Millimeters (mm)	0.3937	Inch (in)
Millimeters (mm)	0.001	Meters (m)
Millimeters (mm)	0.01	Centimeters (cm)
Millimeters (mm)	39.3701	Mils
Millimeters (mm)	1000	Microns
Ohms/kh	0.3048	Ohms/kft
Ounce	28.35	Gram
Pound	0.4536	Kilogram
Pound/kft	1.4881	Kilogram/km
Square Inch	6.452	Square centimeter
Square Centimeter	0.155	Square inch
Square Foot	0.0929	Square meter
Square Meter	10.76	Square foot
Square Miles	2.59	Square kilometer
Square Kilometer	0.3861	Square mile
Watts (w)	44.25	Ft-lb/minute
Watts (w)	0.737562	Ft-lb/sec
Watts (w)	0.001341	Horsepower (hp)
Watt-hour (w-hr)	3.41266	Btu