

Metric Conversion Chart

	English to Metric			Metric to English		
	To Convert From	To	Multiply By	To Convert From	To	Multiply By
Area	sq. in. (in ²)	sq. mm (mm ²)	645.16	sq. mm (mm ²)	sq. in. (in ²)	0.00155
	sq. in. (in ²)	sq. cm (cm ²)	6.4516			
	sq. ft. (ft ²)	sq. meters (m ²)	0.0929			
Density	pounds/cubic foot (lb./ft ³)	kilograms/cubic meter (kg/m ³)	16.02	kilograms/cubic meter (kg/m ³)	pounds/cubic foot (lb./ft ³)	0.0624
Energy	British Thermal Units (Btu) (1 J=Ws=0.2388 cal)	joules (J)	1055	joules (J)	British Thermal Units (Btu)	0.000947
Force	pounds - force (lbf) (1N=0.102 kgf)	newtons (N)	4.448	newtons (N)	pounds - force (lbf)	0.2248
Length	inches (in)	millimeters (mm)	25.4	millimeters (mm)	inches (in)	0.03937
	feet (ft)	meters (m)	0.3048	meters (m)	feet (ft)	3.281
	miles (mi)	kilometers (km)	1.609	kilometers (km)	miles (mi)	0.621
Mass (Weight)	ounces (oz.)	grams (g)	28.35	grams (g)	ounces (oz.)	0.035
	pounds - mass (lb)	kilograms (kg)	0.4536	kilograms (kg)	pounds - mass (lb)	2.205
	short tons (2000 lb) (tn)	metric tons (100 kg) (t)	0.9072	metric tons (100 kg) (t)	short tons (2000 lb) (tn)	1.102
Power	horsepower (550 ft lb/s) (hp)	kilowatts (kW)	0.7457	kilowatts (kW)	horsepower (550 ft lb/s) (hp)	1.341
Pressure	pounds/square inch (PSI)	kilograms (f)/square cm (kgf/cm ²)	0.7457	kilograms (f)/square cm (kgf/cm ²)	pounds/square inch (PSI)	14.22
		kilopascals (kPa)	0.0703	kilopascals (kPa)		0.145
		bars (100 kPa)	6.8948	bars (100 kPa)		14.503
Stress	pounds/square inch (PSI) (1N/mm ² =1MPa)	megapascals (MPa)	0.006895	megapascals (MPa)	pounds/square inch (PSI) (1N/mm ² =1MPa)	145.039
Temperature	degrees Fahrenheit (°F)	degrees Celsius (°C)	5/9 (after subreacting 32)	degrees Celsius (°C)	degrees Fahrenheit (°F)	9/5 (then add 32)
Torque or Bend- ing Moment	pounds-force-foot (lb-ft)	Newtons-meter (Nm)	1.3567	Newtons-meter (Nm)	pounds-force-foot (lb-ft)	0.737
	pounds-force-inch (lb-in)		0.113		pounds-force-inch (lb-in)	8.85
Velocity	feet/second (ft/s)	meters/second (m/s)	0.3048	meters/second (m/s)	feet/second (ft/s)	3.2808
Viscosity	dynamic (centipoise)	Pascal-second (Pas)	.001	Pascal-second (Pas)	dynamic (centipoise)	1000
	denematic - foot ² /sec (ft ² /s)	meter ² /sec (m ² /s)	0.0929	meter ² /sec (m ² /s)	denematic - foot ² /sec (ft ² /s)	10.7643
Volume	cubic inch (in ³)	cubic centimeter (cm ³) (milliliter)	16.3871	cubic centimeter (cm ³) (milliliter)	cubic inch (in ³)	0.061
	quarts (qt)	liters (1000 cm ³)	0.9464	liters (1000 cm ³)	quarts (qt)	1.057
	gallons (gal)	liters	3.7854	liters	gallons (gal)	0.2642

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