

Engineering Unit Conversion Chart

Length | Mass | Force | Pressure | Energy | Temperature

Length Conversions

To Convert From	To	Multiply By
Meter (m)	Centimeters (cm)	100
Meter (m)	Inches (in)	39.37
Inch (in)	Centimeters (cm)	2.54
Foot (ft)	Meters (m)	0.3048
Foot (ft)	Inches (in)	12
Yard (yd)	Feet (ft)	3
Mile (mi)	Kilometers (km)	1.6093
Kilometer (km)	Meters (m)	1000

Mass Conversions

To Convert From	To	Multiply By
Kilogram (kg)	Pounds-mass (lbm)	2.20462
Pound-mass (lbm)	Kilograms (kg)	0.453592
Metric Ton	Kilograms (kg)	1000
Gram (g)	Kilograms (kg)	0.001
Ounce (oz)	Grams (g)	28.3495

Force Conversions

To Convert From	To	Multiply By
Newton (N)	Pounds-force (lbf)	0.2248
Pound-force (lbf)	Newtons (N)	4.44822
Kilogram-force (kgf)	Newtons (N)	9.80665
Dyne	Newtons (N)	0.00001

Pressure Conversions

To Convert From	To	Multiply By
Pascal (Pa)	N/m ²	1
Atmosphere (atm)	Pascals (Pa)	101,325
Atmosphere (atm)	PSI (lb/in ²)	14.696
Bar	Pascals (Pa)	100,000
Bar	PSI	14.5038
PSI	Pascals (Pa)	6894.76
PSI	Bar	0.0689476
MPa	Pascals (Pa)	1,000,000

Energy Conversions

To Convert From	To	Multiply By
Joule (J)	Newton-meter (N-m)	1
Calorie (cal)	Joules (J)	4.184
BTU	Joules (J)	1055.06
Kilowatt-hour (kWh)	Joules (J)	3,600,000
Foot-pound (ft-lb)	Joules (J)	1.35582

Temperature Formulas

To Convert From	To	Multiply By
Celsius (C)	Fahrenheit (F)	$F = (C * 9/5) + 32$
Fahrenheit (F)	Celsius (C)	$C = (F - 32) * 5/9$
Celsius (C)	Kelvin (K)	$K = C + 273.15$
Kelvin (K)	Celsius (C)	$C = K - 273.15$