

Conversion Tables

Imperial to Metric and Metric to Imperial

[Key: 1 inch = 25.40 Millimetres, 1 Millimetre = 0.039 Inches etc.]

To Convert	Multiply by	To Convert	Multiply by
Inches to Centimetres	2.5400	Cu Feet to Cu Meters	0.0283
Centimetres to Inches	0.3937	Cu Metres to Cu Feet	35.3100
Feet to Metres	0.3048	Cu Yards to Cu Metres	0.7646
Metres to Feet	3.2810	Cu Metres to Cu Yards	1.3080
Yards to Metres	0.9144	Cu Inches to Litres	0.0163
Metres to Yards	1.0940	Litres to Cu Inches	61.0300
Miles to Kilometres	1.6090	Gallons to Litres	4.5460
Kilometres to Miles	0.6214	Litres to Gallons	0.2200
Sq Ins to Sq Centimetres	6.4520	Pints to Litres	0.5680
Sq Centimetres to Sq Ins	0.1550	Litres to Pints	1.7610
Sq Metres to Sq Feet	10.7600	Grains to Grams	0.0648
Sq Feet to sq Metres	0.0929	Grams to Grains	15.4300
Sq Yards to Sq Metres	0.8361	Ounces to Grams	28.3500
Sq Metres to Sq Yards	1.1960	Grams to Ounces	0.0353
Sq Miles to Sq Kilometres	2.5900	Pounds to Grams	453.6000
Sq Kilometres to Sq Miles	0.3861	Grams to Pounds	0.0022
Acres to Hectares	0.4047	Pounds to Kilograms	0.4536
Hectares to Acres	2.4710	Kilograms to Pounds	2.2050
Cu Inches to Cu Centimetres	16.3900	Tons to Kilograms	1016.0000
Cu Centimetres to Cu Inches	0.0610	Kilograms to Tons	0.0009

1N \approx 100gf
1cN \approx 1gf
10N \approx 1fgf
4.5N \approx 1lbf
1cN/dtex \approx 1 gf/denier

Newtons	1N = 101.97gf
	1kgf = 9.80066N
Pounds - force	1N = 0.2248 lbf
	1N = 3.5969 ozf
Kilogramme - force	1lbf = 4.448N
Pound / square inch	1lb/in ² = 6.895kN/m ²
Bars	1lb/in ² = 0.06895bars
Kilonewton/sq. meter	1bar = 14.504 lb/in ²
grammes / denier	1g/den = 0.9g/decitex
grammes / decitex	1g/den = 0.0883N/tex
Newtons / tex	1N/tex = 11.33g/den

Conversion Tables

Quantity	Name of SI unit	Symbol
Length	metre	m
Mass	kilogram	kg
Time	second or hour	s / h
Force	newton	N
Pressure	pascal	Pa
Energy, work	joule	J
Power	watt	W
Prefix	Factor	Symbol
deca	101[times 10]	da
mega	106 [times 1,000,000]	M

A bar is a unit of pressure in CGS units and is a pressure of 106 dynes per sq. cm. In practical terms it is equivalent to an 'atmosphere' or a pressure of 76cm of mercury.

Units of Pressure	bar	Pa or N/m	MPa or N/m
1bar = 1da N/cm ²	1	10 ⁵	0.1
1Pa = 1N/m ²	10 ⁻⁵	1	10 ⁻⁶
1 MPa = 1N/mm ²	10	10 ⁶	1

Units of Energy	J or Nm or Ws	DaJ or daNm	kWh
1J = 1Nm = 1Ws	1	0.1	0.278 x 10 ⁻⁶
1daJ = 1daNm	10	1	2.78 x 10 ⁻⁶
1 kWh	3.6 x 106	3.6 x 105	1

Units of Power	Wor J/s or Nm/s	kW
1 kW = 1 J/s = 1 Nm/s	1	1 x 10 ⁻³
1 kW	1000	1

Power

To convert	Multiply by
Horsepower to Kilowatt	0.736
Kilowatt to Horsepower	1.359