

METRIC / IMPERIAL CONVERSION CHART

Quantity	Metric Unit	Imperial Unit	Metric to Imperial unit	Imperial to Metric Unit
Length	millimetre (mm) or centimetre (cm)	Inch (in)	1 cm = 0.394'	1 inch = 25.4 mm
	centimetre (cm) or metre (m)	foot (ft)	1 m = 3.28'	1' = 30.5 cm
	meter (m)	yard (yd)	1 m = 1.09 yd	1 yd = 0.914 m
	kilometre (km)	mile	1 km = 0.621 mile	1 mile = 1.61 km
Temperature	Celsius	Fahrenheit	$^{\circ}\text{F} = (1.8 \times ^{\circ}\text{C}) + 32$	$^{\circ}\text{C} = (^{\circ}\text{F} - 32) \div 1.8$
Mass	gram (g)	ounce (oz)	1 g = 0.0353 oz	1 oz = 28.3 g
	gram (g) or kilogram (kg)	pound (lb)	1 kg = 2.20 lb	1 lb = 454 g
	tonne (t)	ton	1 tonne = 0.984 ton	1 ton = 1.02 tonne
Volume (fluids)	millilitre (mL)	fluid ounce (fl oz)	1 mL = 0.0352 fl oz	1 fl oz = 28.4 mL
	millilitre (mL) or litre (L)	pint (pt)	1 litre = 1.76 pint	1 pint = 568 mL
	litre (L) or cubic metre (m ³)	gallon (gal)	1 m ³ = 220 gallons	1 gal = 4.55 litre
Force	Newton (N)	pound force (LbF)	1 n = 0.225 Lb/F	1 LbF = 4.45 nm
Pressure	Kilopascal (kPa)	pound per square inch (psi)	1 kPa = 0.145 psi	1 psi = 6.89 kPa 1 bar = 100 kPa
	millibar (mb) 10 mb = 1kPa	inch of mercury (inHg)	1 mb = 0.0295 inHg	1 inHg = 33.9mb
Velocity	kilometres per hour (km/h)	Miles per hour (mph)	1 km/h = 0.621 mph	1 mph = 1.61km/h
Power	kiloWatt (kW)	horsepower (hp)	1 kw = 1.34 hp	1hp = 0.746 kw
Torque	newton metres (Nm)	pounds-feet (lbs-ft)	1 Nm = 0.738 lbs-ft	1 lbs-ft = 1.35 Nm
Fuel Economy	litres per 100km (L/100km)	miles per gallon (mpg)	L/100km = 282.48 ÷ mpg	mpg = 282.48 ÷ L/100km
Engine Capacity	litres (L)	cubic inches (ci)	1 L = 61 ci	1 ci = 0.016L



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Vacuum	kilopascal (kPa)	inches of mercury (inHg)	1 kPa = 0.295 inHg	1 inHg = 3.386 kPa
	centimeters of mercury (cmHg)	inches of mercury (inHg)	÷ 2.533	x 2.533
	millimeters of mercury (mmHg)	inches of mercury (inHg)	÷ 25.333	x 25.333

1 Nm = 0.738 ft/lb			
Newton Metres	Foot Pounds	Newton Metres	Foot Pounds
5	3.7	55	40
10	7.4	60	44
15	11	65	48
20	15	70	52
25	18	75	55
30	22	80	59
35	26	85	63
40	30	90	66
45	33	95	70
50	37	100	74

1 ft/lb = 1.35 Nm			
Foot Pounds	Newton Metres	Foot Pounds	Newton Metres
5	6.8	55	74
10	14	60	81
15	20	65	88
20	27	70	95
25	34	75	101
30	40	80	108
35	47	85	115
40	54	90	122
45	61	95	128
50	68	100	135

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1 inch = 25.4 mm			
thou	mm	thou	mm
1	0.025	25	0.635
2	0.051	30	0.762
3	0.076	35	0.889
4	0.102	40	1.02
5	0.127	45	1.14
6	0.152	50	1.27
7	0.178	60	1.52
8	0.203	70	1.78
9	0.229	80	2.03
10	0.254	90	2.29
12	0.305	100	2.54
14	0.356	150	3.81
16	0.406	200	5.08
18	0.457	250	6.35
20	0.508	500	12.7

1 mm = 0.394 Inch			
mm	thou	mm	thou
0.05	2	0.8	32
0.1	4	0.85	34
0.15	6	0.9	36
0.2	8	0.95	38
0.25	10	1.0	40
0.3	12	1.1	43
0.35	14	1.2	47
0.4	16	1.3	51
0.45	18	1.4	55
0.5	20	1.5	59
0.55	22	1.6	63
0.6	24	1.7	67
0.65	26	1.8	71
0.7	28	1.9	75
0.75	30	2.0	79

