

Unit Conversion Table

Units of Length

1 in	=25.4	mm
1 ft	=0.3048	m
1 mile	=1609.3	m
1 micron	= 10^{-6}	m

Units of Mass

1 lb	=453.6	g
1 cwt	=50.8	kg
1 ton(imp)	=1016	kg
1 ton(us)	=907.2	kg
1 tonne	=1000	kg

Units of Moment

1 inlb	=0.113	Nm
1 ftlb	=1.356	Nm
1 kgm	=9.807	Nm
1 ftpoundal	=0.0421	Nm

Temperature Conversion Table

(F-32) x 5/9	= $^{\circ}\text{C}$
K-273.15	= $^{\circ}\text{C}$

Units of Area

1 in ²	=6.45	cm ²
1 ft ²	=0.093	m ²

Units of Pressure

1 psi	=6.89	kPa
1 kgf/cm ²	=98.07	kPa
1 bar	=100	kPa
1 bar	=14.5	Psi
1 atmosphere	=98.1	kPa
1"(STANDRD)	=101.33	kPa
1 cm water	=97.89	Pa
1 in water	=248.64	Pa
1 mm mercury	=133.3	pa
1 in mercury	=3.39	kPa
1 Torr	=133.3	Pa
1 ft water	=0.0298	bar
1 bar	=33.33	ft water

Units of Work

1 lbft	=1.356	J
1 Nm	=1	J
1 Kgm	=9.807	J
1 kW/hr	=3.6	MJ

Units of Volume

1 litre	=0.001	m ³
1 cu.ft.	=0.0283	m ³
1 cu.in.	=16.39	cm ³
1 gal(imp)	=4.546	L
1 gal(us)	=3.79	L
1 fluid oz.(imp)	=28.41	mL
1 fluid oz.(us)	=29.57	mL

Units of Force

1 lbf	=4.45	N
1 kgf	=9.81	N
1 kp(kilopond)	=9.81	N
1 poundal	=138.3	mN
1 ton force	=9.964	kM

Units of Power (Work/Time)

1 lbft/sec	=1.356	W
1 kgm/sec	=9.807	W
1 Nm/sec	=1	W
1 Joule/sec	=1	W
1 H.P.(imp)	=745.7	W

Units

Pascal	Pa
Newton	N
metre	m
litre	L
watt	W
Newton metre	Nm
Joule	J
Megajoule	MJ
"Kelvin	K

Abbreviation

Equivalent

1 Psi=6.895 kPa=0.07kgf/cm²=0.06895 bar=0.0703 atm
 1 standard atmosphere=14.7 psi=101.3 kPa=1.01325 bar
 1 kgf/cm²=98.07 kPa=14.22 psi=28.96 ins mercury
 1 ft lb=0.13826 kgm=1.356 Nm

1 L=1000cm³=1.7598 pint=10⁶mm³
 1 tonne=1000kg=0.984 ton=2205 lb
 1 m³=10⁶cm³
 1 cu ft/min.=0.0283m³/min=28.3 l/min
 1 Pa=1 N/m²

