

Conversion Table

Length (m)	
Ci = 0µF	Li = 0mH
1 mil	25.40µm
1 inch	25.40mm
1 foot	0.3048m
1 yard	0.9144m
1 mile	1.6093km
1 nautical mile	1.852km
Area (m ²)	
1 circular mil	506.7µm ²
1 in ²	645.2mm ²
1 ft ²	0.0929m ²
1 yd ²	0.8361m ²
1 acre	4,047m ²
1 acre	0.4047ha
1 mile ²	2.590km ²
Volume (m ³)	
1 in ³	16.39cm ³
1 ft ³	0.0283m ³
1 yd ³	0.7646m ³
1 UKfloz	28.41mL
1 UKgal	4.546 litre
1 USgal	3.785 litre
1 UKgal	0.004546m ³
1 USgal	0.003785m ³
Mass (kg)	
1oz	28.35g
1 lb	0.454kg
1 cwt	50.80kg
1 UKton	1016kg
1 US ton	907kg
Energy (J), power (W)	
1 ft lbf	1.356J
1 m kg	9.807J
1 Btu	1055J
1 therm	105.5kJ
1 hp h	2.685MJ
1 kW h	3.60MJ
1 Btu/h	0.293W
1 ft lbf/s	1.356W
1 m kgf/s	9.807W
1 hp	745.9W

To convert °F to °C
 $T_c = (5/9) * (T_f - 32)$

To convert °C to °F
 $T_f = (9/5) * T_c + 32$

Velocity (m t/s, rad/s) Acceleration (m/s ² , rad/s ²)	
1 ft/min	5.080mm/s
1 in/s	25.40mm/s
1 ft/s	0.348m/s
1 mile/h	0.4470m/s
1 mile/h	1.609km/h
1 knot	0.5144m/s
1 deg/s	17.45mrad/s
1 rev/min	0.147rad/s
1 rev/s	6.283rad/s
1 ft/s ²	0.3048m/s ²
Flow rate (kg/s, m ³ /s)	
1 lb/h	0.1260g/s
1 ton/h	0.2822kg/s
1 lb/s	0.4536kg/s
1 ft ³ /h	7.866cm ³ /s
1 UKgal/h	1.263cm ³ /s
1 UKgal/min	75.77cm ³ /s
1 UKgal/s	4.546L/s
1 UKga/min	0.273m ³ /h
1 USga/min	0.227m ³ /h
Density (kg/m, kg/m ³)	
1 lb/in	17.86kg/m
1 lb/ft	1.488kg/m
1 lb/yd	0.496kg/m
1 lb/in ³	27.68Mg/m ³
1 lb/ft ³	16.02kg/m ³
1 ton/yd ³	1329kg/m ³
Viscosity (pa s, m ² /s)	
1 poise	9.807Pa s
1 kgf s/m ²	9.807Pa s
1 lbf s/ft ²	47.88Pa s
1 lbf h/ft ²	172.4kPa s
1 stokes	1.0cm ² /s
1 in ² /s	6.452cm ² /s
1 ft ² /s	929.0cm ² /s
Illumination (cd, 1m)	
1 1m/ft ²	10.76lm/m ²
1 cd/ft ²	10.76cd/m ²
1 cd/in ²	1550cd/m ²

Inertia (kg m ²) Momentum (kg m/s, kg m ² /s)	
1 oz in ²	0.018g m ²
1 lb in ²	0.293g m ²
1 lb ft ²	0.0421kg m ²
1 ton ft ²	94.30kg m ²
1 lb ft/s	0.138kg m/s
1 lb ft ² /s	0.042kg m ² /s
Torque (n m)	
1 ozf in	7.062nN m
1 lbf in	0.113N m
1 lbf ft	1.356N m
1 tonf ft	3.307kN m
1 kgf m	9.806 N m
Force (n), pressure (pa)	
1 dyn	10.0µN
1 kgf	9.807N
1 ozf	0.278N
1 lbf	4.445N
1 tonf	9.964kN
1 dyn/cm ²	0.10Pa
1 lbf/ft ²	47.88Pa
1 lbf/in ²	6.895kPa
1 tonf/ft ²	107.2kPa
1 tonf/in ²	15.44MPa
1 kgf/m ²	9.807Pa
1 kgf/cm ²	98.07kPa
1 lbf/in ²	0.069 Bar
1 mmHg	133.3Pa
1 inHg	3.386kPa
1 inH ₂ O	149.1Pa
1 ftH ₂ O	2.989kPa
1 Bar	100kPa
Thermal quantities (W, J, kg, K)	
1 W/in ²	1.55kW/m ²
1 Btu/(ft ² h)	3.155W/m ²
1 Btu/(ft ³ h)	10.35W/m ³
1 Btu/(ft h °F)	1.731w/(m K)
1 ft lbf/lb	2.989J/kg
1 Btu/lb	2326J/kg
1 Btu/ft ³	37.26Kj/m ³
1 ft lbf/(lb °F)	5.380J/(kg K)
1 Btu/(lb °F)	4.187kJ/(kg K)
1 Btu/(ft ³ °F)	67.07kJ/m ³