



CONVERSION OF UNITS

GB and U.S. units to Metric and S.I.

Metric and S.I. units to G.B. and U.S.

Length

1 in = 25.4 mm

1 m = 3.281 ft

1 ft = 0.3048 m

1 mm = 0.03937 in

1 yd = 0.9144 m

1 m = 1.094 yd

1 statute mile = 1.609 km

1 km = 0.6214 statute mile

1 nautical mile = 1.853 km

1 km = 0.540 nautical mile

1 ft = 12 in 1 yd = 3 ft

Area

1 Sq.in = 6.45 cm²

1 cm² = 0.155 Sq.in

1 Sq.ft = 929 cm²

1 m² = 10.764 Sq.ft

1 Sq.yd = 0.836 m²

1 m² = 1.196 Sq.yd

1 acre = 0.4047 ha

1 ha = 2.471 acre

Volume

1 cu.ft = 0.0283 m³

1 m³ = 1.308 cu.yd

1 cu.in = 16.3870 cm³

1 dm³ = 0.03531 cu.ft

1 cu.yd = 0.7646 m³

1 cm³ = 0.061 cu.in

Specific weight and volume

1 m³ /kg = 16.01 cu.ft/lb

1 cu.ft/lb = 0.0624 m³ /kg

1 kg/m³ = 0.06424 lb/cu.ft

1 lb/cu.ft = 16.01 kg/m³



Capacity

1 U.S. Gallon = 3.785 L	1 L = 0.26417 U.S. Gall.
1 Imperial Gallon = 4.54 L	1 L = 0.21997 Imp. Gall.
1 bushel (U.S) = 35.238 L	1 L = 0.0284 bushel (U.S).
1 bushel (Imp) = 36.348 L	1 L = 0.0275 bushel (Imp.).
1 gill = 0.142 L	
1 pint = 0.568 L	
1 quart = 1.136 L	
1 bushel (US) = 1.244 cu.ft	
1 bushel (Imp.) = 1.283 cu.ft	
1 U.S. Gallon = 0.833 Imperial Gallon	

Weight

1 lb = 0.4536 kg	1 kg = 2.2046 lb
1 oz = 28.350 g	1 g = 0.0351 oz
G.B long ton = 1 016 kg	1 t = 0.984 ton (G.B)
USA short ton = 907 kg	1 t = 1.102 short ton
1 grain = 64.8 mg	1 g = 15.43 grains
1 short ton = 2 000 lb	
1 long ton = 2 240 lb	
1 pound = 7.000 grains	
1 pound = 16 ounces	
1 stone (st) = 6.350 kg	

Pressure

1 PSI = 0.069 bar	1 bar = 14.5 PSI
1 inch of mercury = 3386 Pa	1 Pa = 0.0003 inch. Of mercury

Velocity

100 ft/min = 0.508 m/s	1 m/s = 196.9 ft/min
100 ft/s = 30.5 m/s	1 m/s = 3.28 ft/s
1 nautical mile per hour = 1 knot	



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Flow rate

$$1 \text{ CFM (cu.ft/min.)} = 1.699 \text{ m}^3/\text{h}$$

$$1 \text{ m}^3/\text{h} = 0.59 \text{ CFM}$$