

Conversion of U.S. and British general units

length

1 mil	= 0,0254 mm
1 in (inch)	= 25,4 mm
1 ft (foot)	= 0,3048 m
1 yd (yard)	= 0,9144 m
1 ch (chain)	= 20,1 m
1 mile (Landmeile)	= 1,609 km
1 mile (Seemeile)	= 1,852 km
1 mm	= 0,039370 inches
1 m	= 39,370079 inches

weight

1 grain	= 64,8 mg
1 dram	= 1,77 g
1 oz (ounce)	= 28,35 g
1 lb (pound)	= 0,4536 Kp
1 stone	= 6,35 Kp
1 qu (quarter)	= 12,7 Kp
1 US-cwt (hundred-weight)	= 45,36 Kp
1 US ton (short ton)	= 0,907 t
1 brit. ton (long ton)	= 1,016 t

density

1 cu. in. (cubic inch)	= 16,39 cm ³
1 cu. ft. (cubic foot)	= 0,0283 m ³
1 cu. yd. (cubic yard)	= 0,7646 m ³
1 gal. (US gallon)	= 3,785 l
1 gal. (brit gallon)	= 4,546 l
1 US pint	= 0,473 l
1 US quart	= 0,946 l
1 US barrel	= 158,8 l

area

1 CM (circle mil)	= 0,507 • 10 ⁻³ mm ²
1 MCM	= 0,5067 mm ²
1 sq. in (square inch)	= 645,16 mm ²
1 sq. ft. (square foot)	= 0,0929 m ²
1 sq. yd (square yard)	= 0,836 m ²
1 acre	= 4047 m ²
1 sq. mile (square mile)	= 2,59 km ²

electrical units

1 ohm/1000 yd	= 1,0936 Ω/km
1 ohm/1000 ft	= 3,28 Ω/km
1 μF/mile	= 0,62 μF/km
1 megohm/mile	= 1,61 MΩ/km
1 μf/foot	= 3,28 pF/m
1 decibel/mile	= 71,5 mN/m

radiation absorbed dose

1 Gray	= 1 J/kg
1 rad	= 10 ⁻² J/kg = 1 Centi Gy
1 rad	= 0,01 Gy
1 Centi	= 100 Joule
1 rad	= cJ/kg = 0,01 Gy
1 Mrad	= 1 • 10 ⁶ cJ/kg

force

1 lb	= 4,448 N
1 brit. ton	= 9954 N
1 pdl (Poundal)	= 0,1383 N
1 kp	= 9,81 N
1 N	= 1,02 kp

velocity

1 mile/h	= 1,609 km/h
1 knot	= 1,852 km/h
1 ft/s	= 0,305 m/s
1 ft/min	= 5,08 • 10 ⁻³ m/s

power

1 hp • h	= 1,0139 PS • h
1 hp • h	= 2,684 • 10 ⁶ Joule
1 hp • h	= 746 W • h
1 BTU (brit. therm. unit)	= 1055 Joule

power rate

1 PS	= 0,736 kW
1 kW	= 1,36 PS
1 hp	= 0,7457 kW
1 kW	= 1,31 hp

weight per unit length

1 lb/mile	= 0,282 kg/m
1 lb/yd	= 0,496 kg/m
1 lb/foot	= 1,488 kg/m

temperature

F (Fahrenheit)	= (1,8 • C) + 32°
C (Celsius)	= 0,5556 • (F-32°)

density

1 lb/cu. ft.	= 16,02 kg/m ³
1 lb/cu. in.	= 27,68 t/m ³

pressure

1 psi (lb/sq.)	= 68,95 mbar
1 lb/sq. ft.	= 0,478 mbar
1 pdl/sq. ft.	= 1,489 N/m
1 in Hg	= 33,86 mbar
1 ftH ² O	= 29,89 mbar
1 in H ² O	= 2,491 mbar
1 N/mm ²	= 145 psi
1 kp/mm ²	= 1422 psi
1 at	= 736 Torr
1 Torr	= 1 mmHg
1 bar	= 0,1 H Pa
1 Pa	= 1 N/m ²