

Conversion factors between SI and Anglo-Saxon units

Length

1 mm	= 0.3937 inches	1 inch	= 25.40 mm
1 m	= 3.2808 feet	1 foot	= 0.3048 m
1 m	= 1.0936 yards	1 yard	= 0.9144 m
1 km	= 0.6214 miles	1 mile	= 1.609 km

Volume

1 mm ³	= 6.1023 x 10 ⁻⁵ inches ³	1 inch ³	= 1.6387 x 10 ⁴ mm ³
1 m ³	= 6.10234 x 10 ⁴ inches ³	1 inch ³	= 1.6387 x 10 ⁻⁵ m ³
1 m ³	= 35.3147 feet ³	1 foot ³	= 0.0283 m ³
1 m ³	= 1.3079 yards ³	1 yard ³	= 0.7645 m ³
1 L	= 0.219 gallons (UK)	1 gallon (UK)	= 4.566 L
1 L	= 0.264 gallons (USA)	1 gallon (USA)	= 3.7878 L

Energy, work, heat

1 J	= 0.7375 lbf ft	1 lbf ft	= 1.3559 J
1 J	= 2.77 x 10 ⁻⁷ kWh	1 kWh	= 3.6 x 10 ⁶ J
1 J	= 0.9475 x 10 ⁻³ Btu	1 Btu	= 1055.06 J

Surface area

1 mm ²	= 0.00155 sq. inches	1 sq. inches	= 645.16 mm ²
1 m ²	= 10.764 sq. feet	1 sq. foot	= 0.0929 m ²
1 m ²	= 1.196 sq. yards	1 sq. yard	= 0.836 m ²
1 km ²	= 0.3861 sq. miles	1 sq. mile	= 2.5889 km ²

Mass

1 gram	= 0.035274 ounces	1 ounce	= 28.349 gram
1 kg	= 2.2046 pounds	1 pound	= 0.4536 kg
1 kg	= 0.0197 CWT	1 CWT	= 50.802 kg
1 ton	= 0.9842 long tons	1 long ton	= 1.016 ton

Force

1 N	= 0.2248 lbs (lbf)	1 lbs (lbf)	= 4.4482 N
1 kN	= 0.1003 long tonf	1 long tonf	= 9.964 kN

Areal force (tension)

1 N/mm ²	= 145.038 lbs/in ² (psi)	1 lbs/in ²	= 0.0069 N/mm ²
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Moment of force

1 Nm	= 141.612 In-oz	1 In-oz	= 0.00706 Nm
1 Nm	= 8.851 In-lbs	1 In-lbs	= 0.113 Nm
1 Nm	= 0.738 Ft-lbs	1 Ft-lbs	= 0.3558 Nm