

CONVERSION CHART

SI UNITS & CONVERSIONS FOR CHARACTERISTICS OF MECHANICAL FASTENERS						
property	unit	symbol	conversion			approximate equivalent
			from	to	multiply by	
length	meter centimeter millimeter	m cm mm	inch inch foot	mm cm mm	25.4 2.54 304.8	25mm = 1 in. 300mm = 1ft. 1m = 39.37 in.
mass	kilogram gram tonne (megagram)	kg g t	ounce pound ton (2000 lb)	g kg kg	28.35 .4536 907.2	28g = 1 oz. 1kg = 2.2 lb. = 35 oz. 1t = 2200 lbs.
density	kilogram per cubic meter	kg/m ³	pounds per cu. ft.	kg/m	16.02	16kg/m = 1 lb/ft. ³
temperature	deg. Celsius	°C	deg. Fahr.	°C	(°F - 32) x 5/9	0°C = 32°F 100°C = 212°F
area	square meter square millimeter	m ² mm ²	sq. in. sq. ft.	mm ² m ²	645.2 .0929	645mm ² = 1 in. ² 1m ² = 11 ft. ²
volume	cubic meter cubic centimeter cubic millimeter	m ³ cm ³ mm ³	cu. in. cu.ft. cu. yd.	mm ³ m ³ m ³	16387 .02832 .7645	16400mm ³ = 1 in. ³ 1m ³ = 35 ft. ³ 1m ³ = 1.3 yd. ³
force	newton kilonewton meganewton	N kN MN	ounce (Force) pound (Force) Kip	N kN MN	.278 .00445 .00445	1N = 3.6 ozf 4.4N = 1 lbf 1kN = 225 lbf
stress	megapascal newtons/sq.m	MPa N/m ²	pound/in ² (psi) Kip/in ² (ksi)	MPa MPa	.0069 6.895	1MPa = 145 psi 7MPa = 1 ksi
torque	newton-meter	N•m	inch-ounce inch-pound foot-pound	N-m N-m N-m	.00706 .113 1.356	1N•m = 140 in. oz. 1N•m = 9 in. lb. 1N•m = .75 ft. lb. 1.4 N•m = 1 ft. lb.