

**Maryland Metrics Technical Data Chart**  
**Conversion Factors**

To convert	From Unit	To Units	Multiply by
Atmospheres (standard) to pounds per square inch	A	lb/in <sup>2</sup> (psi)	14.70
Atmospheres (standard) to Pascal	A	Pa	101325
Bar to kilograms force per square centimeter	bar	kgf/cm <sup>2</sup>	1.0197
Bar to pounds force per square inch	bar	lb/in <sup>2</sup> (psi)	14.5038
Centigrade to Fahrenheit	°C	°F	multiply by 1.8 and add 32
Centimeters to feet	cm	ft	0.03280840
Centimeters to inches	cm	in	0.393701
Centimeters <sup>3</sup> to feet <sup>3</sup>	cm <sup>3</sup>	ft <sup>3</sup>	0.0000353147
Centimeters <sup>3</sup> to inches <sup>3</sup>	cm <sup>3</sup>	in <sup>3</sup>	0.06102376
Fahrenheit to Centigrade	°F	°C	subtract 32 and multiply by 0.5555
Feet per second to miles per hour	ft/s	mph	0.681818
Feet to centimeters	ft	cm	30.48
Feet to meters	ft	m	0.3048
Feet to millimeters	ft	mm	304.8
Feet <sup>3</sup> to meters <sup>3</sup>	ft <sup>3</sup>	m <sup>3</sup>	0.02831685
Feet <sup>3</sup> to gallons	ft <sup>3</sup>	gal	6.2288
Foot pounds to kilogram meters	ftlb	kgm	0.1382
Gallons (UK) to liters	gal	l	4.546092
Gallons (US) to liters	gal	l	3.785412
Grams per centimeters <sup>3</sup> to pounds per inch <sup>3</sup> (density)	gm/cm <sup>3</sup>	lb/in <sup>3</sup>	0.0361275
Grams to ounces	gm	oz	0.035274
Grams to pounds	gm	lb	0.00220462
Inches to centimeters	in	cm	2.540
Inches to meters	in	m	0.0254
Inches to millimeters	in	mm	25.4
Inches <sup>3</sup> to centimeters <sup>3</sup>	in <sup>3</sup>	cm <sup>3</sup>	16.38706
Inches <sup>3</sup> to litres	in <sup>3</sup>	l	0.01639
Kilogram meters to foot pounds	kgm	ftlb	7.233
Kilograms force to bar	kgf	B	0.9807
Kilograms force to Newtons	kgf	N	9.806650
Kilograms per meter to pounds per foot (assuming constant cross sectional area)	kg/m	lb/ft	0.671970
Kilograms per square centimeter to pounds per square inch	kg/cm <sup>2</sup>	lb/in <sup>2</sup> (psi)	14.223
Kilograms per square meter to pounds per square foot	kg/m <sup>2</sup>	lb/ft <sup>2</sup>	0.2048
Kilograms per square meter to Newtons per square meter	kg/m <sup>3</sup>	N/m <sup>2</sup>	9.806650
Kilograms per square millimeter to pounds per square inch	kg/mm <sup>2</sup>	lb/in <sup>2</sup> (psi)	1422.34
Kilograms per square millimeter to tons per square inch	kg/mm <sup>3</sup>	ton/in <sup>2</sup>	0.63497
Kilograms to pounds	kg	lb	2.205
Kilograms to tons (long)	kg	ton	0.0009842
Kilometers to miles	km	mile	0.62137
Liters of water at 62°F to pounds	l	lb	2.205
Liters to inches <sup>3</sup>	l	in <sup>3</sup>	61.03
Liters to gallons (UK)	l	gal	0.2199692
Liters to gallons (US)	l	gal	0.2641720
Meters to inches	m	in	39.37008
Meters to miles	m	miles	0.000621371
Meters to feet	m	ft	3.28084
Meters to yards	m	yd	1.093613