

# A P P E N D I X

## Alphabetical List of Units with Their SI Names and Conversion Factors

To convert from	to	Symbol	Multiply by
Acre (U.S. survey)	square meter	m <sup>2</sup>	4.047 × 10 <sup>3</sup>
Acre-foot	cubic meter	m <sup>3</sup>	1.233 × 10 <sup>3</sup>
Atmosphere (standard)	pascal	Pa	1.013 × 10 <sup>5</sup>
Board foot	cubic meter	m <sup>3</sup>	2.359 ÷ 10 <sup>3</sup>
Degree Fahrenheit	Celsius degree	°C	$t_C = (t_F - 32)/1.8$
Degree Fahrenheit	Absolute	°A	$°A = (t_F + 459.67)$
Foot	meter	m	3.048 ÷ 10
Foot, square	square meter	m <sup>2</sup>	9.290 ÷ 10 <sup>2</sup>
Foot, cubic	cubic meter	m <sup>3</sup>	2.831 ÷ 10 <sup>2</sup>
Feet, cubic, per minute	cubic meters per second	m <sup>3</sup> /s	4.917 ÷ 10 <sup>4</sup>
Feet per second	meters per second	m/s	3.048 ÷ 10
Foot-pound force	joule	J	1.355 × 1
Foot-pounds per minute	watt	W	2.259 ÷ 10 <sup>2</sup>
Foot-pounds per second	watt	W	1.355 × 1
Gallon (U.S. Liquid)	cubic meter	m <sup>3</sup>	3.785 ÷ 10 <sup>3</sup>
Gallons per minute	cubic meters per second	m <sup>3</sup> /s	6.309 ÷ 10 <sup>5</sup>
Horsepower (550 ft. lb/sec)	watt	W	7.457 × 10 <sup>2</sup>
Horsepower	kilowatt	kW	7.457 ÷ 10
Inch	meter	m	2.540 ÷ 10 <sup>2</sup>
Inch, square	square meter	m <sup>2</sup>	6.452 ÷ 10 <sup>4</sup>
Inch, cubic	cubic meter	m <sup>3</sup>	1.639 ÷ 10 <sup>5</sup>
Inch	millimeter	mm	2.540 × 10
Mile	meter	m	1.609 × 10 <sup>3</sup>
Mile	kilometer	km	1.609 × 1
Miles per hour	kilometers per hour	km/h	1.609 × 1
Miles per minute	meters per second	m/s	2.682 × 10
Pound	kilogram	kg	4.534 ÷ 10
Pounds per cubic yard	kilograms per cubic meter	kg/m <sup>3</sup>	5.933 ÷ 10

<b>To convert from</b>	<b>to</b>	<b>Symbol</b>	<b>Multiply by</b>
Pounds per cubic foot	kilograms per cubic meter	kg/m <sup>3</sup>	1.602 × 10
Pounds per gallon (U.S.)	kilograms per cubic meter	kg/m <sup>3</sup>	1.198 × 10 <sup>2</sup>
Pounds per square foot	kilograms per square meter	kg/m <sup>2</sup>	4.882 × 1
Pounds per square inch (psi)	pascal	Pa	6.895 × 10 <sup>3</sup>
Ton (2,000 lb)	kilogram	kg	9.072 × 10 <sup>2</sup>
Ton (2,240 lb)	kilogram	kg	1.016 × 10 <sup>3</sup>
Ton (metric)	kilogram	kg	1.000 × 10 <sup>3</sup>
Tons (2,000 lb) per hour	kilograms per second	kg/s	2.520 ÷ 10
Yard, cubic	cubic meter	m <sup>3</sup>	7.646 ÷ 10
Yards, cubic, per hour	cubic meter per hour	m <sup>3</sup> /h	7.646 ÷ 10

Note: All SI symbols are expressed in lowercase letters except those that are used to designate a person, which are capitalized.

Sources: *Standard for Metric Practice*, ASTM E 380-76, IEEE 268-1976, American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

*National Standard of Canada Metric Practice Guide*, CAN-3-001-02-73/CSA Z 234.1-1973, Canadian Standards Association, 178 Rexdale Boulevard, Rexdale, Ontario, Canada M94 IRS.