



## Conversion Factors

*Converting U.S. Customary Units or Metrics*

Apply the following factors when converting U.S. customary units or metrics:

To convert...	To...	Multiply by...
<b>From U. S. Customary Units to Metrics</b>		
inches	millimeters	25.4
	centimeters	2.54
	meters	0.0254
feet	centimeters	30.48
	meters	0.3048
yards	meters	0.91
cubic feet	cubic meters	0.028314
pounds	kilograms	0.4536
short ton	metric ton	0.9072
long ton	metric ton	1.016

<b>From Metrics to U.S. Customary Units</b>		
millimeters	inches	0.04
centimeters	inches	0.3937
meters	inches	39.37
	feet	3.281
cubic meters	cubic feet	35.3145
kilograms	pounds	2.2046
metric ton	short ton	1.10
	long ton	0.9842

### ***U.S. Customary Unit and Metric Equivalents***

The following table provides the equivalents of metric units and U.S. customary units:

This U.S. Customary unit(s)...	Equals these metric units...
one inch	2.540 centimeters
one foot (12 inches)	0.30479 meters
	30.48 centimeters
one cubic foot	0.028314 cubic meters
35.31 cubic feet	one cubic meter
1 yard (3 feet)	0.9144 meter
one mile	1609 meters
	1.609 kilometers
one pound	0.4536 kilograms
one ton	1000 kilograms

This metric unit(s)...	Equals these U.S. customary units...
one centimeter	0.3937 inches
one meter	39.370 inches
	3.281 feet
one cubic meter	35.3145 feet
one kilometer	1100 yards
one kilogram	2.2046 pounds
1000 kilograms	2200 pounds

### ***Temperature Conversion Between Celsius and Fahrenheit***

Apply the following factors when converting temperature between Celsius and Fahrenheit:

To convert...	To...	Multiply by...
Celsius (C)	Fahrenheit	$C \times 9 / 5 + 32$
Fahrenheit (F)	Celsius	$(F - 32) \times 5 / 9$

### ***Calculating Volume***

To calculate the volume of one cubic foot, use this formula:

$$L \times W \times H = \text{volume of one cubic foot}$$