

# Conversion Charts

Gauge Number	Thickness (Inches)		Pounds Per Sq. Ft.
	Nominal	Tolerance Range	
10	.1345	.1405 to .1285	5.48695
11	.1196	.1256 to .1136	4.87911
12	.1046	.1106 to .0986	4.26718
13	.0897	.0947 to .0847	3.65933
14	.0747	.0797 to .0697	3.04740
15	.0673	.0723 to .0623	2.74552
16	.0598	.0648 to .0548	2.43955
17	.0538	.0578 to .0498	2.19478
18	.0478	.0518 to .0438	1.95001
19	.0418	.0458 to .0378	1.70524
20	.0359	.0389 to .0329	1.46455
21	.0329	.0359 to .0299	1.34216
22	.0299	.0329 to .0269	1.21978
23	.0269	.0299 to .0239	1.09739
24	.0239	.0269 to .0209	.97501
25	.0209	.0239 to .0179	.85262
26	.0179	.0199 to .0159	.73023
27	.0164	.0184 to .0144	.66094

## METRIC MEASURE

### Measures of Length

10 millimeters	= 1 centimeter, cm
10 centimeters	= 1 decimeter, dm
10 decimeters	= 1 meter, m
10 meters	= 1 decameter, dam
10 decameters	= 1 hectometer, hm
10 hectometers	= 1 kilometer, km
10 kilometers	= 1 myriameter, mym

### Measures of Weight

10 milligrams, mg	= 1 centigram, cg
10 centigrams	= 1 decigram, dg
10 decigrams	= 1 gram, g
10 grams	= 1 decagram, dag
10 decagrams	= 1 hectogram, hg
10 hectograms	= 1 kilogram, kg
10 kilograms	= 1 myriagram, myg
10 myriagrams	= 1 quintal, q
10 quintals	= 1 miller or ton, MT or t

### Measures of Capacity or Volume

10 milliliters, ml	= 1 centiliter, cl
10 centiliters	= 1 deciliter, dl
10 deciliters	= 1 liter, l
10 liters	= 1 decaliter, dal
10 decaliters	= 1 hectoliter, hl
10 hectoliters	= 1 kiloliter, kl

1 liter = 1 cubic decimeter;  
1 kiloliter = 1 cubic meter

## TEMPERATURE

Under the Metric System, temperature is recorded in degrees Celsius instead of Fahrenheit.

Some ideas of the difference between these can be realized if you consider room temperature of about 68° Fahrenheit, would be 20° Celsius. Water would freeze at 0° Celsius, which is 32° Fahrenheit.

## CONVERSION TABLE

When You Know:	You Can Find:	If You Multiply By:
Inches	Millimeters	25.4001
Millimeters	Inches	.03937
Inches	Meters	.0254
Meters	Inches	39.370
Feet	Meters	.3048
Meters	Feet	3.2808
Yards	Meters	.9144
Meters	Yards	1.09361
Feet	Kilometers	.0003048
Kilometers	Feet	3280.8
Miles (Statute)	Kilometers	1.60935
Kilometers	Miles (Statute)	.62137
Miles (Nautical)	Kilometers	1.85325
Kilometers	Miles (Nautical)	.53959
Sq. Inches	Sq. Millimeters	645.163
Sq. Millimeters	Sq. Inches	.00155
Sq. Inches	Sq. Centimeters	6.45163
Sq. Centimeters	Sq. Inches	.155
Sq. Feet	Sq. Meters	.0929
Sq. Meters x 10.	Sq. Feet	10.76387
Sq. Yards	Sq. Meters	.83613
Sq. Meters	Sq. Yards	1.19599
Acres	Hectares	.40469
Hectares	Acres	2.47104
Acres	Sq. Kilometers	.0040469
Sq. Kilometers	Acres	247.104
Sq. Miles	Sq. Kilometers	2.5899
Sq. Kilometers	Sq. Miles	.3861
Cu. Inches	Cu. Centimeters	16.3866
Cu. Feet	Cu. Meters	.0283
Cu. Yards	Cu. Meters	.7650
U.S. Gallons	Liters	3.7854
Quarts	Liters	.9460
Pints	Liters	.4730
Ounces	Grams	28.3495
Pounds	Kilograms	.4536
Tons	Metric Tons	.9072

## U.S. MEASURE

### Long Measure

12 inches	make 1 foot
3 feet	make 1 yard
6 feet	make 1 fathom
5 1/2 yards	make 1 pole or rod
40 poles	make 1 furlong
8 furlongs	make 1 mile
69 1/8 miles	make 1 degree
320 rods	make 1 mile

### Miscellaneous

12 units	make 1 dozen
12 dozen	make 1 gross
20 units	make 1 score

### Solid or Cubic Measure

1728 cu. in.	make 1 cu. foot
27 cu. ft.	make 1 cu. yard
128 cu. ft.	make 1 cd. wood
24 3/4 cu. ft.	make 1 perch stone

Note: - A cord of wood is a pile 8-ft. long, 4 ft. wide and 4 ft. high; therefore, 8 ft. x 4 ft. x 4 ft. = 128 cu. ft.

A perch of stone or brick is 16 1/2 ft. long, 1 1/2 ft. wide and 1 ft. high.

### Liquid Measure

2 cups	make 1 pint
2 pints	make 1 quart
4 quarts	make 1 gallon
31 1/2 gallons	make 1 barrel
63 gallons	make 1 hogshead

### Square Measure

144 sq. in.	make 1 sq. ft.
9 sq. ft.	make 1 sq. yd.
30 1/4 sq. yds.	make 1 sq. pole
40 sq. poles	make 1 rood
4 roods	make 1 acre
640 acres	make 1 sq. mile