

Section 10

Useful Information



U.S./METRIC CONVERSION EQUIVALENTS

To convert length to mm: Multiply inches x 25.4

Linear Measure

U.S. to METRIC		METRIC to U.S.	
1 inch	25.400 millimeter	1 millimeter	.03937 inches
1 inch	2.540 centimeters	1 centimeter	.39370 inches
1 foot	30.480 centimeters	1 meter	3.2808 feet
1 foot	.305 meters	1 meter	1.0936 yards
1 yard	.9144 meters	1 meter	3.28 feet
1 mile	1.609 kilometers	1 kilometer	.62137 miles
1 mile	1610 meters		

Area

U.S. to METRIC		METRIC to U.S.	
1 Sq. Mile	2.5889 Sq. kilometers	1 Sq. centimeter	.1550 Sq. inches
1 Sq. Foot	.093 Sq. meters	1 Sq. meter	10.764 Sq. inches
1 Sq. Inch	6.452 Sq. centimeters	1 Sq. kilometer	.38614 Sq. inches
1 Sq. Inch	645.2 Sq. millimeters	1 Sq. millimeter	.00155 Sq. inches

One acre = 4840 sq. yards = 43560 sq. feet =

4047 sq. meters (m²) = 0.4047 hectare

One hectare = 10000 sq. meters (m²) = 2.471 acres

One acre = 100 sq. meters (m²) = 119.6 sq. yards

Capacity

U.S. to METRIC		METRIC to U.S.	
QUART	LITER	LITER	QUART
1	1.101	1	.908
2	2.202	2	1.816
3	3.303	3	2.724
4	4.404	4	3.632
5	5.505	5	4.540
US GALLON	LITER	LITER	US GALLON
1	3.79	1	.26
2	7.57	2	.53
3	11.36	3	.79
4	15.14	4	1.06
5	18.93	5	1.32

Mass

U.S. to METRIC		METRIC to U.S.	
Lb.	kg.	kg.	Lb.
1	.45	1	2.20
2	.91	2	4.41
3	1.36	3	6.61
4	1.81	4	8.82
5	2.27	5	11.02
Oz.	gr.	gr.	Oz.
1	28.35	1	.035
2	56.70	2	0.71
3	85.05	3	.106
4	113.40	4	.141
5	141.75	5	.176

U.S. to METRIC		METRIC to U.S.	
1 Lb.	4.448 N	1 Newton (N)	.225 Lbs.
1 Lb.	.455 daN	1 daN	2.2 Lbs.
1 N	.102 Kg Force	1 Kg Force	9.8 Newton (N)
1 N	.105 Kiloounds	1 Kilopound	9.5 Newton (N)
1 Pound/Inch	175.127 Newton/Meter	1 N/M	.0057 Pounds/Inch
1 Pound/Inch	14.59 Newton/Meter	1 N/M	.0685 Pounds/Foot

To convert length to inches: Multiply mm x .039370

Square Measure

U.S. to METRIC		METRIC to U.S.	
Sq. Inch	cm ²	cm ²	Sq. Inch
1	6.45	1	.155
2	12.90	2	.310
3	19.35	3	.465
4	25.81	4	.620
5	32.26	5	.775
Sq. Feet	m ²	m ²	Sq. Feet
1	.093	1	10.76
2	.186	2	21.53
3	.279	3	32.29
4	.372	4	43.06
5	.465	5	53.82

Volume

U.S. to METRIC		METRIC to U.S.	
Cu. Inch	cm ³	cm ³	Cu. Inch
1	16.39	1	.061
2	32.77	2	.122
3	49.16	3	.183
4	65.55	4	.244
5	81.94	5	.305
Cu. Inch	m ³	m ³	Cu. Inch
1	.028	1	35.31
2	.057	2	70.63
3	.085	3	105.94
4	.113	4	141.26
5	.142	5	176.57

Pressure

U.S. to METRIC		METRIC to U.S.	
Lb./Sq./In.	kg/cm ²	kg/cm ²	Lb./Sq./In.
1	.070	1	14.22
2	.141	2	28.45
3	.211	3	42.64
4	.281	4	56.89
5	.352	5	71.12
Lb./Sq./Ft.	kg/m ²	kg/m ²	Lb./Sq./Ft.
1	4.88	1	.20
2	9.7	2	.41
3	14.65	3	.61
4	19.53	4	.82
5	24.41	5	1.02

U.S. to METRIC		METRIC to U.S.	
1 P.S.I.	.0690 BAR	1 BAR	14.5 P.S.I.
1 N/m ²	.102 Kg/m ²	1 Kg/m ²	9.8 Newton/Meter ²
1 Pa	.102 Kg/m ²	1 Kg/m ²	9.8 Pascal (Pa)
1 P.S.I.	6.897 KN/m ²	1 Kilonewton/Meter	0.145 P.S.I.

Power Measure

U.S. to METRIC		METRIC to U.S.	
1 BTU/Hour	0.293 Watt (W)	1 Watt	3.413 BTU/Hour
Horsepower (550 ft./lbs)	.745 Kilowatt	1Kilowatt	1.342 HP