



# PTM&W Industries, Inc

10640 S. Painter Ave.

Santa Fe Springs, CA 90670-4092

562-946-4511 800-421-1518 FAX:562-941-4773

## Measurements and Conversion Charts

### MEASUREMENT EQUIVALENTS

Unit	Equivalent	Unit	Equivalent	Unit	Equivalent
1 acre	4840 sq. yards	1 gallon	0.1337 cubic feet	1 pint (liquid)	28.87 cubic inches
1 centimeter	.394 inches	1 gallon	3.785 liters	1 pint (liquid)	16 fl. oz.
1 cu. cm.	0.06102 cu. in.	1 gallon water	8.3453 lb. water	1 pint (liquid)	0.01671 cu. ft.
1 cubic foot	28,320 cu. cm.	1 gram	.0022 pounds	1 pint (liquid)	0.5 quarts
1 cubic foot	1728 cu. in.	1 kilogram	2.205 pounds	1 pint (liquid)	0.4732 liters
1 cubic foot	28.32 liters	1 kilometer	3281 feet	1 pint (liquid)	0.125 gallons
1 cubic foot	59.84 pints	1 kilometer	1094 yards	1 pound	454 grams
1 cubic foot	29.92 quarts	1 kilometer	0.62137 miles	1 pound	16 ounces
1 cubic foot	7.4805 gallons	1 liter	1000 cu. cm.	1 pound	0.4536 kilograms
1 cubic inch	16.39 cu. cm.	1 liter	61.02 cubic inches	1 pound water	27.68 cubic inches
1 cubic inch	0.01639 liters	1 liter	0.03531 cu. ft.	1 pound water	0.1198 gallons
1 cubic inch	0.03463 pints	1 liter	33.8 fl. oz.	1 pound water	0.01602 gallons
1 cubic inch	0.01732 quarts	1 liter	2.113 pints	1 pound/cu.in.	27.68 grams / cc
1 cubic inch	0.00433 gallons	1 liter	1.057 quarts	1 pound/cu.in.	1728 lb. Cu. ft.
1 cubic meter	35.316 cu. feet	1 liter	0.2642 gallon	1 pound/cu. ft.	0.01602 gm./ cc
1 cubic meter	61,023 cu. in.	1 meter	39.37 inches	1 pound/sq. in.	144.0 lb. / sq. ft.
1 cubic meter	2113 pints	1 meter	3.281 feet	1 quart(liquid)	946.4 cu. cm.
1 cubic meter	1057 quarts	1 meter	1.094 yards	1 quart(liquid)	57.75 cu. in.
1 cubic meter	264.2 gallons	1 micron	.0000394 inches	1 quart(liquid)	0.03342 cu. ft.
1 cubic yard	764.6 liters	1 mile	5280 feet	1 quart(liquid)	.09463 liters
1 cubic yard	1615.9 pints	1 mile	1760 yards	1 quart(liquid)	0.25 gallons
1 cubic yard	807.9 quarts	1 mile	1609 meters	1 sq. cm.	0.1550 sq. in.
1 cubic yard	202.0 gallons	1 mile	1.609 kilometers	1 sq. ft.	929.03 sq. cm.
1 day	86,400 seconds	1 millimeter	0.0394 inches	1 sq. ft.	144 sq. in.
1 dram	0.0625 ounces	1 mil	.001 inches	1 sq. ft.	0.0929 sq. meters
1 foot	304.8 millimeters	1 milliter	0.034 fl. oz.	1 sq. ft.	0.1111 sq. yds.
1 foot	30.48 centimeters	1 ounce	28.3495 grams	1 square inch	645.2 sq. mm.
1 foot	0.3048 meters	1 ounce	.625 pounds	1 square inch	6.45 sq. cm.
1 fluid ounce	0.0296 liters	1 oz. (fluid)	1.805 cu. inch	1 yard	914.4 millimeters
1 gallon	231 cubic inches	1 oz. (fluid)	0.02957 liters	1 yard	91.44 centimeters
1 gallon	3785 cu. cm.	1 pint (liquid)	473.2 cu. cm.	1 yard	0.9144 meters

### FRACTIONAL EQUIVALENTS

Fractional	Decimal	Metric (mm)	Fractional	Decimal	Metric (mm)	Fractional	Decimal	Metric (mm)	Fractional	Decimal	Metric (mm)
1/64	.0156	.39688	17/64	.2656	6.74688	33/64	.5156	13.0968	49/64	.7656	19.4468
1/32	.0312	.79375	9/32	.2812	7.14375	17/32	.5312	13.4937	25/32	.7812	19.8437
3/64	.0468	1.19063	19/64	.2968	7.54063	35/64	.5468	13.8906	51/64	.7968	20.2406
1/16	.0625	1.58750	5/16	.3125	7.93750	9/16	.5625	14.2875	13/16	.8125	20.6375
5/64	.0781	1.98438	21/64	.3281	8.33438	37/64	.5781	14.6843	53/64	.8281	21.0343
3/32	.0937	2.38125	11/32	.3437	8.73125	19/32	.5937	15.0812	27/32	.8437	21.4312
7/64	.1093	2.77813	23/64	.3593	9.12813	39/64	.6093	15.4781	55/64	.8593	21.8381
1/8	.125	3.17500	3/8	.375	9.52500	5/8	.625	15.8750	7/8	.875	22.2250
9/64	.1406	3.57188	25/64	.3906	9.92188	41/64	.6406	16.2718	57/64	.8906	22.6218
5/32	.1562	3.96875	13/32	.4062	10.31875	21/32	.6562	16.6687	29/32	.9062	23.0187
11/64	.1718	4.36563	27/64	.4218	10.71563	43/64	.6718	17.0656	59/64	.9218	23.4156
3/16	.1875	4.76250	7/16	.4375	11.11250	11/16	.6875	17.4625	15/16	.9375	23.8125
13/64	.2031	5.15938	29/64	.4531	11.50938	45/64	.7031	17.8593	61/64	.9531	24.2093
7/32	.2187	5.55625	15/32	.4687	11.90625	23/32	.7187	18.2562	31/32	.9687	24.6062
15/64	.2343	5.95313	31/64	.4843	12.30313	47/64	.7343	18.6531	63/64	.9843	25.0031
1/4	.25	6.35000	1/2	.5	12.70000	3/4	.75	19.0500	1	1.0000	25.4000



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Specific Gravity Volume Conversions			
Specific Gravity (grams / cc )	Pounds per cubic inch	Pounds Per cubic foot	Cubic Inches Per pound
0.50	0.0181	31.2	55.4
0.60	0.0217	37.5	46.1
0.70	0.0253	43.7	39.5
0.80	0.0289	49.9	34.6
0.90	0.0325	56.2	30.8
1.00	0.0361	62.4	27.7
1.05	0.0379	65.6	26.4
1.10	0.0397	68.7	25.2
1.15	0.0415	71.8	24.1
1.20	0.0434	74.9	23.1
1.25	0.0452	78.0	22.1
1.30	0.0470	81.2	21.3
1.35	0.0488	84.3	20.5
1.40	0.0506	87.4	19.8
1.45	0.0524	90.5	19.1
1.50	0.0542	93.6	18.5
1.55	0.0560	96.8	17.9
1.60	0.0578	99.9	17.3
1.65	0.0596	103.0	16.8
1.70	0.0614	106.1	16.3
1.75	0.0632	109.3	15.8
1.80	0.0650	112.4	15.4
1.85	0.0668	115.5	15.0
1.90	0.0686	118.6	14.6
1.95	0.0705	121.7	14.2
2.00	0.0723	124.9	13.8
2.05	0.0741	128.0	13.5
2.10	0.0759	131.1	13.2
2.15	0.0777	134.2	12.9
2.20	0.0795	137.3	12.6
2.25	0.0813	140.5	12.3
2.30	0.0831	143.6	12.0
2.35	0.0849	146.7	11.8
2.40	0.0867	149.8	11.5
2.45	0.0885	153.0	11.3
2.50	0.0903	156.1	11.1
2.55	0.0921	159.2	10.9
2.60	0.0939	162.3	10.6
2.65	0.0957	165.4	10.4
2.70	0.0976	168.6	10.3
2.75	0.0994	171.7	10.1
2.80	0.1012	174.8	9.9
2.85	0.1030	177.9	9.7
2.90	0.1048	181.0	9.5
2.95	0.1066	184.2	9.4
3.00	0.1084	187.3	9.2

COMMON MEASUREMENT UNITS		
When You Know:	You Can Find:	If You Multiply By:
inches	millimeters	25
feet	centimeters	30
millimeters	inches	0.04
centimeters	inches	0.4
square inches	square centimeters	6.5
square feet	square meters	0.09
square centimeters	square inches	0.16
ounces	grams	28
pounds	kilograms	0.45
grams	ounces	0.035
kilograms	pounds	2.2
ounces (liquid)	milliliters	30
milliliters	ounces (liquid)	0.034
liters	pints	2.1
liters	quarts	1.06
liters	gallons	0.26

Celsius / Fahrenheit							
Degrees		Degrees		Degrees		Degrees	
°C	°F	°C	°F	°C	°F	°C	°F
- 40	- 40	57	134.6	122	251.6	187	368.6
- 35	- 31	58	136.4	123	253.4	188	370.4
- 30	- 22	59	138.2	124	255.2	189	372.2
- 25	- 13	60	140	125	257	190	374
- 20	- 4	61	141.8	126	258.8	191	375.8
- 15	5	62	143.6	127	260.6	192	377.6
- 10	14	63	145.4	128	262.4	193	379.4
- 5	23	64	147.2	129	264.2	194	381.2
0	32	65	149	130	266	195	383
1	33.8	66	150.8	131	267.8	196	384.8
2	35.6	67	152.6	132	269.6	197	386.6
3	37.4	68	154.4	133	271.4	198	388.4
4	39.2	69	156.2	134	273.2	199	390.2
5	41	70	158	135	275	200	392
6	42.8	71	159.8	136	276.8	201	393.8
7	44.6	72	161.6	137	278.6	202	395.6
8	46.4	73	163.4	138	280.4	203	397.4
9	48.2	74	165.2	139	282.2	204	399.2
10	50	75	167	140	284	205	401
11	51.8	76	168.8	141	285.8	206	402.8
12	53.6	77	170.6	142	287.6	207	404.6
13	55.4	78	172.4	143	289.4	208	406.4
14	57.2	79	174.2	144	291.2	209	408.2
15	59	80	176	145	293	210	410
16	60.8	81	177.8	146	294.8	211	411.8
17	62.6	82	179.6	147	296.6	212	413.6
18	64.4	83	181.4	148	298.4	213	415.4
19	66.2	84	183.2	149	300.2	214	417.2
20	68	85	185	150	302	215	419
21	69.8	86	186.8	151	303.8	216	420.8
22	71.6	87	188.6	152	305.6	217	422.6
23	73.4	88	190.4	153	307.4	218	424.4
24	75.2	89	192.2	154	309.2	219	426.2
25	77	90	194	155	311	220	428
26	78.8	91	195.8	156	312.8	221	429.8
27	80.6	92	197.6	157	314.6	222	431.6
28	82.4	93	199.4	158	316.4	223	433.4
29	84.2	94	201.2	159	318.2	224	435.2
30	86	95	203	160	320	225	437
31	87.8	96	204.8	161	321.8	226	438.8
32	89.6	97	206.6	162	323.6	227	440.6
33	91.4	98	208.4	163	325.4	228	442.4
34	93.2	99	210.2	164	327.2	229	444.2
35	95	100	212	165	329	230	446
36	96.8	101	213.8	166	330.8	231	447.8
37	98.6	102	215.6	167	332.6	232	449.6
38	100.4	103	217.4	168	334.4	233	451.4
39	102.2	104	219.2	169	336.2	234	453.2
40	104	105	221	170	338	235	455
41	105.8	106	222.8	171	339.8	236	456.8
42	107.6	107	224.6	172	341.6	237	458.6
43	109.4	108	226.4	173	343.4	238	460.4
44	111.2	109	228.2	174	345.2	239	462.2
45	113	110	230	175	347	240	464
46	114.8	111	231.8	176	348.8	241	465.8
47	116.6	112	233.6	177	350.6	242	467.6
48	118.4	113	235.4	178	352.4	243	469.4
49	120.2	114	237.2	179	354.2	244	471.2
50	122	115	239	180	356	245	473
51	123.8	116	240.8	181	357.8	250	482
52	125.6	117	242.6	182	359.6	260	500
53	127.4	118	244.4	183	361.4	270	518
54	129.2	119	246.2	184	363.2	280	536
55	131	120	248	185	365	290	554
56	132.8	121	249.8	186	366.8	300	572