

Adhesive Calculation Tables

Liquid Or Paste Estimates			
Bead Size Diameter	Cubic Inches 1000 Lineal Ft	Gal. per 1000 Lineal Ft.	Lineal Ft per Gallon
1/16"	36.8	0.16	6000
3/32"	82.9	0.36	2700
1/8"	147.3	0.64	1500
3/16"	331.7	1.44	675
1/4"	589.1	2.55	375
5/16"	920.4	3.98	240
3/8"	1325.4	5.74	165
1/2"	2356.2	10.20	95
5/8"	3861.6	15.92	50
3/4"	5300.5	22.95	35
1"	9424.8	40.80	19

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Hot Melt Consumption Chart		
Bead Size	Linear Feet Per Pound	Pounds per Linear Foot
1/32"	6000	0.00017
1/16"	1500	0.00067
3/32"	850	0.00118
1/8"	500	0.00200
5/32"	300	0.00333
3/16"	210	0.00476
1/4"	115	0.00870
3/8"	50	0.02000

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Bead Length Chart for Structural Adhesives				
Ratio Cartridge	1/4" Wide Half Round Bead	3/8" Wide Half Round Bead	1/2" Wide Half Round Bead	5/8" Wide Half Round Bead
10:1 Ratio 380 ml	945" Per Cartridge	420" Per Cartridge	236" Per Cartridge	151" Per Cartridge
1:1 Ratio 400 ml	995" Per Cartridge	442" Per Cartridge	248" Per Cartridge	159" Per Cartridge
1:1 Ratio 50 ml	124" Per Cartridge	55" Per Cartridge	31" Per Cartridge	20" Per Cartridge
Bulk 10:1 or 1:1	9450" Per Cartridge	4200" Per Cartridge	2360" Per Cartridge	1510" Per Cartridge

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Area Calculations

c = circumference
d = diameter
r = radius
a = altitude
b = base

L = length
a = area
s = side
s1 + s2 = Parallel
Sides

Circumference of a circle = $d \times 3.1416$

Area of a circle = $r^2 \times 3.1416$

Area of a square = s^2

Area of a triangle = $\frac{1}{2}b \times a$

Area of a rectangle = $b \times a$

Surface of a cube = $s^2 \times 6$

Surface of a cylinder = $(2 \times r^2 \times 3.1416) + (d \times L \times 3.1416)$

Volume of a cube = s^3

Volume of a cylinder = $r^2 \times 3.1416 \times L$

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Equivalents		
1 cubic foot	=	1728 cubic inches
1 gallon	=	128 ounces
1 gallon	=	231 cubic inches
1 cubic foot	=	7.48 gallons
1 gallon water	=	8.33 pounds
1 pound	=	454 grams
1 inch	=	2.54 centimeters
1000 milliliters	=	1 liter
100 centiliters	=	1 liter
2 cups	=	1 pint
2 pints	=	1 quart
4 quarts	=	1 gallon

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Fahrenheit to Centigrade (Celsius)

-60 = -51	60 = 15.6	260 = 127
-50 = -46	70 = 21.1	280 = 138
-40 = -40	80 = 26.7	300 = 149
-30 = -34	90 = 32.2	320 = 160
-20 = -29	100 = 37.8	340 = 171
-10 = -23	120 = 48.9	360 = 182
0 = -18	140 = 60	380 = 193
10 = -12	160 = 71.1	400 = 204
20 = -6.7	180 = 82.2	500 = 260
30 = -1.1	200 = 93.3	600 = 316
40 = 4.4	220 = 104	700 = 271
50 = 10	240 = 116	800 = 427

Degrees Celsius = Multiply .56 (after subtracting 32)
Degrees Fahrenheit = Multiply 1.8(then add 32)

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