

Appendix D

Conversions and Measurements**Conversion Factors**

To Convert—	To—	Multiply By—
Acres	square feet	43,560
	square yards	4,840
	square miles	0.00156
	square meters	4,046.856
	hectares	0.40468
Barrels	gallons	31.5
	not-petroleum petroleum	42
Centimeters	inches	0.3937
	feet	0.0328
Cubic centimeters	cubic inches	0.06102
Cubic feet	cubic inches	1,728
	cubic meters	0.028317
	cubic yards	0.037037
	gallons	7.48
	liters	28.32
Cubic feet of water	pounds at 60°F	62.37
	gallons	7.481
Cubic inches	fluid ounces	0.554113
	quarts	0.017316
	gallons	0.004329
	milliliters	16.387064
Cubic meters	cubic feet	35.3145
	cubic yards	1.30795
Cubic yards	cubic feet	27
	cubic meters	0.76456
Cups	teaspoons	48
	tablespoons	16
	ounces	8
Feet	centimeters	30.48
	miles	0.00019
	kilometers	0.0003
Gallons	milliliters	3.785
	cubic inches	231
	cubic feet	0.1337
	cubic yards	0.00495
	cubic meters	0.00379
	fluid ounces	128

To Convert—	To—	Multiply By—
Kilograms	long tons	0.00098
	metric tons	0.001
Kilometers	feet	3,280.8
	miles	0.62137
Liters	fluid ounces	33.814
	quarts	1.05669
	gallons	0.2642
	British gallons	0.2198
	cubic inches	61.02374
	cubic feet	0.03531
	cubic meters	0.001
Meters	cubic yards	0.00131
	inches	39.37
	feet	3.2808
	yards	1.094
Miles	nautical miles	0.869
	feet	5,280
	yards	1,760
	meters	1,609.344
Miles (nautical)	statute miles	1.1508
Milliliters	fluid minims	16.231
	fluid drams	0.2705
	cubic ounces	0.0338
	inches	0.061
Millimeters	inches	0.03937
Ounces	grains	437.5
	drams	16
	pounds	0.0625
	grams	28.34952
	kilograms	0.02835
Ounces (fluid)	minims	480
	pints	0.0625
	quarts	0.03125
	gallons	0.00781
	cubic inches	1.80469
	cubic feet	0.00104
	milliliters	29.57353
	liters	0.02957
	teaspoons	6
	tablespoons	2
Ounces (Brit fluid)	fluid ounces US	0.96

To Convert—	To—	Multiply By—
Pounds	ounces	16
	grams	453.6
	kilograms	0.453592
	short tons	0.0005
	long tons	0.0004466
	metric tons	0.0004536
Pounds of water	gallons	0.1198
Quarts (dry)	cubic inches	67.2006
Quarts (fluid)	fluid ounces	32
	cubic inches	57.749
	cubic feet	0.033421
	millimeters	946.358
	liters	0.946333
Square centimeters	square inches	0.115
	square feet	0.00108
Square feet	square inches	144
	square yards	0.111111
	square cen - timeters	929
	square meters	0.0929
Square inches	square centimeters	6.452

To Convert—	To—	Multiply By—
Square meters	square feet	10.765
	square yards	1.196
Square miles	acres	640
	square kilometers	2.589998
Square yards	square meters	0.836
Tons (long)	pounds	2,240
	kilograms	1,016.185
	short tons	1.12
	metric tons	1.016
Tons (short)	pounds	2,000
	kilograms	907.185
	long tons	0.89286
	metric tons	0.907185
Tons (metric)	pounds	2,204.62
	kilograms	1.000
	long tons	0.984206
	short tons	1.10231
Yards	centimeters	91.44
	meters	0.9144

Celsius-Fahrenheit Conversions

°C	°F	°C	°F	°C	°F
-50	= -58	-20	= -4	+10	= +50
-45	= -49	-15	= +5	+15	= +59
-40	= -40	-10	= +14	+20	= +68
-35	= -31	-5	= +23	+25	= +77
-30	= -21	0	= +32	+30	= +86
-25	= -13	+5	= +41	+35	= +95

°C	°F	°C	°F	°C	°F
+40	= +104	+70	= +158	+100	= +212
+45	= +113	+75	= +167	+105	= +221
+50	= +122	+80	= +176	+110	= +230
+55	= +131	+85	= +185	+115	= +239
+60	= +140	+90	= +194	+120	= +248
+65	= +149	+95	= +203		
°C = (°F - 32) x .56 °F = (1.8 X °C) + 32					

Decontaminant Containers – Measurements and Weights

Containers	Measurements	Weights
Drum, 55-gallon, 16-gage (NSN 8110-00-597-2353)	Cubage – 12 cubic feet Length – 35 inches Width – 27.5 inches	Empty, 70 pounds. Filled with water, 526 pounds. Filled with STB (slurry), 620 pounds. Filled with DS2, 507 pounds.
Drum, 55-gallon, 18-gage (NSN 8110-00-292-9783)	Cubage – 12 cubic feet Length – 35 inches Width – 27.5 inches	Empty, 50 pounds. Filled with water, 506 pounds. Filled with STB (slurry), 600 pounds. Filled with DS2, 487 pounds.
Ash and Garbage Can, 32-gallon (GI can) (NSN 7240-00-160-0440)	Cubage – 7 cubic feet Length – 26.5 inches Width – 20 inches	Empty, 33 pounds. Filled with water, 300 pounds. Filled with STB (slurry), 353 pounds. Filled with DS2, 288 pounds.
Gasoline Can, 5-gallon (NSN 7240-00-178-8286)	Cubage – 1 cubic foot Length – 18.50 inches Width – 6.75 inches	Empty, 10.5 pounds. Filled with water, 52 pounds. Filled with STB (slurry), 66 pounds. Filled with DS2, 50 pounds.
Pail, 5-gallon, DS2 (NSN 7240-00-575-2243)	Cubage – 1 cubic foot Length – 13.75 inches Width – 11.12 inches	Empty, 6 pounds. Filled with water, 48 pounds. Filled with STB (slurry), 61 pounds. Filled with DS2, 46 pounds.
Drum, 8-gallon, STB, 16-gage (NSN 6850-00-297-6693)	Cubage – 1.4 cubic feet Length – 14 inches Width – 14 inches	Empty, 11 pounds. Filled with water, 78 pounds. Filled with STB (slurry), 91 pounds. Filled with DS2, 71 pounds.