



Custom Golf Materials, Inc.

P.O. Box 8, Old Bethpage, NY 11804

Phone: (631) 249-7471 • Fax: (631) 249-9036

EQUIVALENTS

U.S. MEASUREMENT EQUIVALENTS

1 mile = 1,760 yards = 5,280 feet

1 yard = 3 feet = 36 inches

1 foot = 12 inches

1 gallon = 4 quarts = 8 pints = 128 fluid ounces

1 gallon of water = 8.34 pounds = 133.44 ounces avoirdupois (weighed ounces)

1 acre = 43,560 square feet = 4,840 square yards

1 square yard = 9 square feet = 1,296 square inches

1 square foot = 144 square inches = 1/9 square yard

1 square mile = 1 section = 640 acres

1 cubic yard = 27 cubic feet = 46,656 cubic inches

1 cubic foot = 1,728 cubic inches

1 cubic foot of water = 62.34 pounds = 7.47 gallons

1 acre inch of water = 27.154 gallons

1 bushel = 32 quarts = 1.25 cubic feet = 2, ISO cubic inches = 0.046 cubic yards

1 ton = 2,000 pounds

1 pound = 16 ounces avoirdupois (weighed ounces)

METRIC EQUIVALENTS

Reminder: "kilo-" = 1000

"centi-" = 1/100

"milli-" = 1/1000

1 kilometer = 1,000 meters = 1093.6 yards = 3280.8 feet

1 meter = 100 centimeters = 1,000 millimeters = 1.0936 yards = 3.28 feet = 39.37 inches

1 centimeter = 10 millimeters = 0.01 meters = 0.3937 inches

1 liter = 1,000 milliliters = 1.0567 quarts = 33.815 fluid ounces

1 milliliter = 1 cubic centimeter = 1 gram of water

1 liter = 1,000 cubic centimeters = 1 kilogram of water

1 hectare = 10,000 square meters = 2.471 acres

1 square kilometer = 1000 hectares = 1,000,000 square meters = 0.39 square miles

1 square meter = 10.76 square feet = 1.2 square yards

1 square centimeter = 0.16 square inches

1 square millimeter = 0.0016 square inches

1 metric ton = 1,000 kilograms = 2,204.6 pounds

1 kilogram = 2.2 pounds = 35.27 weighed ounces = 1,000 grams

MISCELLANEOUS EQUIVALENTS

1 part per million = 1 milligram per kilogram

2 parts per million (soil test value) = approximately 1 pound per acre

1 pound per acre = 1.121 kilograms per hectare

1 acre furrow slice = approximately 2,000,000 pounds

1 percent = 10,000 parts per million

1 pound per 1,000 square feet = 43.56 pounds per acre



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EQUIVALENTS

Slope Equivalents

- 10% = 6° = 10: 1
- 18% = 100 = 6:1
- 25% = 14° = 4:1
- 33% = 180 = 3:1
- 50% = 26° = 2:1
- 100% = 450 = 1:1

MATERIAL WEIGHTS PER CUBIC YARD

Loam	(loose)	2,200 lbs
	(compact)	2,550 lbs
Clay	(compact)	2,700 lbs
	(wet)	3,050 lbs
Clay sand	(compact)	3,250 lbs
Silty Sand	(wet)	3,100 lbs
Sand	(dry)	2,700 lbs
Gravel	up to 3,000 lbs
Crushed Stone	up to 3,000 lbs
Peat moss	(compact)	450 lbs
	(loose)	110 lbs
Water	1,685 lbs

FORMULA

IRRIGATION FORMULAS

- Sprinkler precipitation rate =
(gallons per minute x 96.3) ÷ (spacing length x spacing width)
- Minutes to irrigate per day =
(water required per week ÷ days per week available) ÷ precipitation rate
- Voltage loss in wiring = (wire length x amps x wire size resistance) ÷ 1000

MISCELLANEOUS FORMULAS

- Area of rectangle = length x width
- Area of right triangle = 1/2 base x height
- Volume of a pile = 1/3 height x area of base
- Area of circle = 3.14 (π) x radius squared
(or) Area = 0.78 x diameter squared
- Diameter of circle = circumference x 0.32
- Volume of lake in gallons = 7.48 x volume in cubic feet
- Doubling the diameter of a circle increases the area four times.
- Doubling the diameter of a pipe increases its capacity four times.