

POOL & SPA WATER TESTS

1. Keep test kit out of reach of children.
2. Read precautions on all labels.
3. Store test kit in cool, dark place.
4. Replace reagents once each year.
5. Do not dispose of solutions in pool or spa. Instr. #5314
6. Rinse cells before and after each test.
7. Obtain samples 18" (45 cm) below water surface.
8. Hold dropper bottle vertically when dispensing reagent.

Total Chlorine Test

1. Rinse and fill chlorine / bromine cell to mark with water to be tested.
2. Add 5 drops R-0600. Cap and invert to mix.
3. Match color with color standard. Record as parts per million (ppm) total chlorine (Cl_2).
See Dosage Charts for adjustment.

Total Bromine Test

1. Rinse and fill chlorine / bromine cell to mark with water to be tested.
2. Add 5 drops R-0600. Cap and invert to mix.
3. Match color with color standard. Record as parts per million (ppm) total bromine (Br_2).
See manufacturer's instructions for adjustment.

pH Test

1. Rinse and fill pH cell to mark with water to be tested.
2. Add 5 drops R-0014. Cap and invert to mix.
3. Match color with color standard. Record as pH units. If sample color is between two values, pH is average of the two. See Dosage Charts for adjustment.

Upgraded Kits Available

This kit is designed for testing pools and spas with low bather loads. It uses the **OT** method to determine total chlorine. Upgrading to a **DPD kit with more tests** is recommended for those with higher usage or recurrent water problems such as pH "bounce," algae, strong odor, eye irritation, bleaching, staining, or corrosion.

CHLORINE & pH DOSAGE CHARTS

Volume of Water (gallons/ liters)	TO RAISE CHLORINE 1 PPM USING CHLORINE COMPOUND*					
	% Available Chlorine					
	10%	12%	45%	60%	65%	75%
250 gal 1,000 L	0.32 fl oz 10.0 mL	0.27 fl oz 8.35 mL	0.07 oz 2.22 g	0.06 oz 1.67 g	0.05 oz 1.54 g	0.04 oz 1.42 g
400 gal 1,500 L	0.51 fl oz 15.0 mL	0.43 fl oz 12.5 mL	0.12 oz 3.33 g	0.09 oz 2.50 g	0.08 oz 2.31 g	0.07 oz 2.13 g
1,000 gal 4,000 L	1.28 fl oz 40.0 mL	1.07 fl oz 33.3 mL	0.30 oz 8.89 g	0.22 oz 6.67 g	0.21 oz 6.15 g	0.20 oz 5.63 g
5,000 gal 20,000 L	6.40 fl oz 200 mL	5.33 fl oz 167 mL	1.48 oz 44.4 g	1.11 oz 33.3 g	1.03 oz 30.8 g	0.95 oz 28.3 g
10,000 gal 40,000 L	12.8 fl oz 400 mL	10.7 fl oz 333 mL	2.97 oz 88.9 g	2.23 oz 66.7 g	2.05 oz 61.5 g	1.77 oz 56.3 g
15,000 gal 60,000 L	1.20 pt 600 mL	1.00 pt 500 mL	4.44 oz 133 g	3.34 oz 100 g	3.08 oz 92.3 g	2.66 oz 84.5 g
20,000 gal 80,000 L	1.60 pt 800 mL	1.33 pt 667 mL	5.94 oz 178 g	4.45 oz 133 g	4.11 oz 123 g	3.77 oz 113 g

For Chlorine Chart

*Chlorine products contain different amounts of available chlorine. Adjust treatment amounts accordingly.

For pH Chart

**Sodium bisulfate percentage may vary. Adjust treatment amounts accordingly.

Dosages obtained experimentally using pool water with the following values:

Total Alkalinity ~100 ppm CaCO₃
Calcium Hardness ~200 ppm CaCO₃
Total Dissolved Solids ~250 ppm
Temperature ~75°F (24°C)

Dosages can vary if actual values differ from experimental values.

Volume of Water (gallons/ liters)	TO LOWER pH TO 7.5 USING DRY ACID (SODIUM BISULFATE, 93.2%)**			TO LOWER pH TO 7.5 USING MURIATIC ACID (20% BAUMÉ/31.45% HCl)			TO RAISE pH TO 7.5 USING SODA ASH (SODIUM CARBONATE, 100%)		
	From 7.8	From 8.2	From 8.5	From 7.8	From 8.2	From 8.5	From 7.2	From 6.8	From 6.5
250 gal 1,000 L	0.35 oz 10.5 g	0.64 oz 19.2 g	0.88 oz 26.4 g	0.26 fl oz 8.25 mL	0.48 fl oz 15.2 mL	0.64 fl oz 20.3 mL	0.31 oz 8.70 g	0.96 oz 27.0 g	1.20 oz 33.8 g
400 gal 1,500 L	0.56 oz 15.8 g	1.02 oz 28.8 g	1.41 oz 39.6 g	0.42 fl oz 12.8 mL	0.77 fl oz 22.8 mL	1.02 fl oz 30.5 mL	0.50 oz 13.1 g	1.51 oz 40.5 g	1.92 oz 50.6 g
1,000 gal 4,000 L	1.40 oz 42.0 g	2.56 oz 76.8 g	3.52 oz 106 g	1.04 fl oz 33.0 mL	1.90 fl oz 60.8 mL	2.56 fl oz 81.2 mL	1.24 oz 34.8 g	3.84 oz 108 g	4.80 oz 135 g
5,000 gal 20,000 L	7.00 oz 210 g	12.8 oz 384 g	1.10 lb 528 g	5.20 fl oz 165 mL	9.60 fl oz 304 mL	12.8 fl oz 406 mL	6.20 oz 174 g	1.20 lb 540 g	1.50 lb 675 g
10,000 gal 40,000 L	14.0 oz 420 g	1.60 lb 768 g	2.20 lb 1.06 kg	10.4 fl oz 330 mL	1.20 pt 608 mL	1.60 pt 812 mL	12.4 oz 348 g	2.40 lb 1.08 kg	3.00 lb 1.35 kg
15,000 gal 60,000 L	1.31 lb 630 g	2.40 lb 1.15 kg	3.30 lb 1.59 kg	15.6 fl oz 495 mL	1.80 pt 912 mL	1.20 qt 1.22 L	1.16 lb 522 g	3.60 lb 1.62 kg	4.50 lb 2.03 kg
20,000 gal 80,000 L	1.75 lb 840 g	3.20 lb 1.54 kg	4.40 lb 2.11 kg	1.30 pt 660 mL	1.20 qt 1.22 L	1.60 qt 1.62 L	1.55 lb 696 g	4.80 lb 2.16 kg	6.00 lb 2.70 kg