Swimming Pool Chemistry Test Kits

Most of the swimming pool test kits on the market are provided by Taylor Technologies. https://www.taylortechnologies.com/images

You need a test kit that fits you pool chemistry. This normally includes testing for chlorine, bromine, pH, Alkalinity, Cyanuric Acid, and Calcium Hardness. If you have a salt pool, you will also need to be able to test for Total Dissolved Solids (TDS).

Pictured: Model K2005 salt



You can order your test kit on line or try to find at one of your local pool supply stores.

Coolspot Pools- 2584 Industry Rd., Atwater, OH 44201-9335 330-673-7012

Harper Well & Pump Inc.- 10033 State Route 44, Mantua, OH 44255-9704 (330) 274-2800

Litehouse Pools & Spas- 610 W Main St., Ravenna, OH 44266-2704 (330) 296-9409

Streetsboro Sales & Service- 8958 SR 14, Streetsboro, OH 44241-5626 (330) 626-5177

Chemical Testing Instructions

-Rinse tubes before & after each test. -Obtain samples 18" (45 cm) below water surface. -Hold bottle vertically when dispensing.

Free, Combined & Total Chlorine Test

- 1. Rinse and fill small comparator tube to 9 mL mark with water to be tested.
- 2. Add 5 drops R-0001 and 5 drops R-0002. Cap and invert to mix.
- 3. Match color with color standard. Record as parts per million (ppm) free chlorine (FC).
- 4. Add 5 drops R-0003. Cap and invert to mix.
- 5. Match color immediately. Record as ppm total chlorine (TC).
- 6. Subtract FC from TC. Record as ppm combined chlorine (CC). Formula: TC FC = CC.

Total Bromine Test

- 1. Rinse and fill small comparator tube to 9 mL mark with water to be tested.
- 2. Add 5 drops R-0001 and 5 drops R-0002. Cap and invert to mix.
- 3. Match color with color standard.* Record as parts per million (ppm) total bromine.
- *If color is off-scale: Repeat test using 4.5 mL sample diluted to 9 mL mark with tap water. Multiply reading by 2 to obtain approximate sanitizer level. If color is still off-scale: Repeat test using 1.8 mL sample diluted to 9 mL mark with tap water. Multiply reading by 5 to obtain approximate sanitizer level.

pH Test

- 1. Rinse and fill large comparator tube to 44 mL mark with water to be tested.
- 2. Add 5 drops R-0004. Cap and invert to mix.
- 3. Match color with color standard. Record as pH units and save sample if pH needs adjustment. If sample color is between two values, pH is average of the two.

Total Alkalinity Test

- 1. Rinse and fill large comparator tube to 25 mL mark with water to be tested.
- 2. Add 2 drops R-0007. Swirl to mix.
- 3. Add 5 drops R-0008. Swirl to mix. Sample should turn green.
- 4. Add R-0009 dropwise. After each drop, count and swirl to mix until color changes from green to red.
- 5. Multiply drops in Step 4 by 10. Record as parts per million (ppm) total alkalinity as calcium carbonate.
- *When high TA is anticipated, this procedure may be used: Use 10 mL sample, 1 drop R-0007, 3 drops R-0008, and multiply drops in Step 4 by 25.

Calcium Hardness Test

- 1. Rinse and fill large comparator tube to 25 mL mark with water to be tested.*
- 2. Add 20 drops R-0010. Swirl to mix.
- 3. Add 5 drops R-0011L. Swirl to mix. If calcium hardness is present, sample will turn red.
- 4. Add R-0012 dropwise. After each drop, count and swirl to mix until color changes from red to blue.
- 5. Multiply drops in Step 4 by 10. Record as parts per million (ppm) calcium hardness as calcium carbonate.
- *When high CH is anticipated, this procedure may be used: Use 10 mL sample, 10 drops R-0010, 3 drops R-0011L, and multiply drops in Step 4 by 25.

Cyanuric Acid Test

- 1. Rinse and fill CYA dispensing bottle (#9191) to 7 mL mark with water to be tested.
- 2. Add R-0013 to 14 mL mark. Cap and mix for 30 seconds.
- 3. Slowly transfer cloudy solution to small comparator tube until black dot on bottom just disappears when viewed from top.
- 4. Read tube at liquid level on back of comparator block. Record reading as parts per million (ppm) cyanuric acid Your reagents should be replaced once a year.

Sodium Chloride (Salt) Test

For 1 drop = 200 ppm

- 1. Rinse and fill sample tube (#9198) to 10 mL mark with water to be tested.
- 2. Add 1 drop R-0630. Swirl to mix. Sample should turn yellow.
- 3. Add R-0718 dropwise, swirling and counting after each drop, until color changes from yellow to a milky salmon (brick) red. Always hold bottle in vertical position. NOTE: Do not add enough R-0718 to give a brown color. First change from yellow to a milky salmon (brick) red is the endpoint.
- 4. Multiply drops of R-0718 by 200. Record as parts per million (ppm) salt as sodium chloride.



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