

INSTRUCTIONS FOR FOR 5 WAY DPD TEST KIT (B7443 & B7449)

1. Rinse test tubes before and after each test.
2. Obtain water samples from 18" below pool or spa surface and away from any water return outlet.
3. Spill water from tube until level with test line mark on tube.
4. Hold dropper bottle vertically over tube and add one drop at a time and swirl after each drop to mix.
5. Perform test in shaded area, viewing test results against a lighted background
6. Store test kit in a cool, dark place.
7. Replace test solutions at the start of each season.
8. Do not dispose of test solutions in pool or spa.

CHLORINE TEST DPD METHOD

1. Fill CL tube to mark with pool or spa water.
2. Without touching tablet with fingers, drop one DPD #1 tablet into tube.
3. Place cap on tube and invert several times until tablet dissolves.
4. **Free Chlorine Reading:** Immediately compare tube color with adjacent color standard. The result is read in parts per million (PPM).

Total Chlorine Reading:

Save the test sample from the free chlorine test and add one DPD #3 tablet, shake to dissolve. Immediately compare tube color for (PPM) test reading. If there is a difference greater than 2 PPM between the total chlorine and free chlorine reading, super-chlorination / shock treatment is need.

DO NOT PERFORM FOLLOWING TEST IF TOTAL AVAILABLE CHLORINE EXCEEDS 3.0 PPM OR IF TOTAL ACTIVE BROMINE EXCEEDS 6.0 PPM

TOTAL ACTIVE BROMINE

1. Fill CL tube to mark with pool or spa water.
2. Without touching tablet with fingers, drop one DPD #1 tablet into tube.
3. Place cap on tube and invert several times until tablet dissolves.
4. Compare color in vial with bromine standards to determine Total Active Bromine.

pH TEST (degree of acidity or alkalinity)

1. Fill large tube to pH mark with pool or spa water.
2. Add 1 drop of solution #4, swirl to mix.
3. Add 5 drops of solution #2, swirl to mix.
4. Compare color with pH color standards.

ACID DEMAND TEST

1. Using water sample from pH test, add solution #3, one drop at a time, swirling between drops.
2. Count drops needed to change color to nearly match pH color standard. Do not count drops which give a 7.2 reading or below.
3. Remember the number of drops added and refer to the Acid Demand Chart in the test kit booklet to determine quantity of acid (liquid or dry) required.

NOTE:

- A. Add no more than 1 pint (or ½ liter) of liquid acid or dry equivalent to each 10,000 gallons (or 40,000 liters) of water capacity in any one day.
- B. Never add acid and chlorine at the same time.
- C. Always add acid while filter is running.
- D. Add acid in area away from skimmer and metal fixtures.

TOTAL ALKALINITY TEST

1. Fill large tube to total alkalinity test line with pool or spa water.
2. Add 1 drop of solution #4 and swirl to mix.
3. Add 2 drops of solution #5 and swirl to mix.
4. Add solution #3 one drop at a time, swirl between drops.
5. Count drops needed to change color from blue to clear or slightly yellow.
6. Multiply the number of drops X 10 to obtain ppm (parts per million) reading.
EXAMPLE: 8 drops X 10 = 80 ppm.
Ideal total alkalinity is 80-120 ppm for plaster finished pools or 120-150 ppm for vinyl, painted or fiberglass pools. If your reading is less than desired – add sodium bicarbonate. If more than desired, acid is usually needed. Perform the Acid Demand Test.