

When taking a reading, hold DipCell comparator so that you are looking above the horizon with sunlight coming over your shoulder.

Free Chlorine

Cl₂

- 1 Fill DipCell to the fill line with sample.
- 2 Add 5 drops of DPD 1A (P-6740) and 5 drops of *DPD 1B (P-6741). Cap and invert to mix.
- 3 Match sample color to a color standard. Record result as ppm Free Chlorine.

Total Chlorine

Cl₂

- 1 Remove cap and add 5 drops of DPD 3 (P-6743).
 - 2 Cap and invert to mix.
 - 3 Match sample color to a color standard. Record result as ppm Total Chlorine.
- NOTE:**Total Chlorine - Free Chlorine = Combined Chlorine

pH

- 1 If DipCell is empty, fill to line with sample.
- 2 Add 5 drops of pH Indicator (P-7026). Cap and invert to mix.
- 3 Match sample color to a color standard. Record as pH. If pH is not within desired range, retain sample for Acid/Base Demand test.

**Acid
Base**

- 1 Remove cap from DipCell.
- 2 If pH is HIGH: Add *Acid (P-6068), one drop at a time, and mix until color matches desired pH. See chart for dosage recommendation.
- 3 If pH is LOW: Add Base (P-6460), one drop at a time and mix until color matches desired pH. See chart for dosage recommendation.

Total Alkalinity

Alk

- 1 Fill tube (0929) to the upper X10 line with sample.
 - 2 Add 5 drops of *Alk 1 (P-7028). Swirl to mix.
 - 3 Add *Alk Titrant (P-6111) dropwise while swirling until color changes from blue-green to RED. Record total drops.
 - 4 Each drop equals 10 ppm Total Alkalinity.
- NOTE:** For HIGH range tests: Fill to X20 line in Step 1. Each drop = 20 ppm Alkalinity.

Calcium Hardness

Hard

- 1 Fill tube (0929) to the lower X20 line with sample.
 - 2 Add 5 drops of *Hard 1(P-4259) and 5 drops of *Hard 2 (P-7030). Swirl to mix.
 - 3 Add Hard Titrant (P-7031) dropwise while swirling until color changes from red through purple to BLUE. Record total drops.
 - 4 Each drop equals 20 ppm Ca Hardness.
- NOTE:** For LOW range tests: Fill to X10 line in Step 1. Each drop = 10 ppm Calcium Hardness

Cyanuric Acid

CYA

- 1 Remove square tube and cap from round tube. Fill round tube to top line with sample.
 - 2 Add one *CYA tablet (6994A). Crush tablet with tablet crusher. Mix until disintegrated.
 - 3 Insert square tube into round tube.
 - 4 Viewing from above, adjust the square tube until the black dot just barely disappears. Read result in ppm CYA at water level WITHIN SQUARE TUBE.
- NOTE:** To read above 100 ppm retest by adding sample to lower line, add tap water to top line. Multiply result by 2.