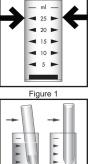
Phosphate CHEMets[®] Kit

K-8530/ R-8515: 2 - 30 ppm PO₄ K-8515/ R-8515: 0 - 120 ppm PO₄

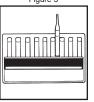
Test Procedure

- 1. Fill the sample cup to the 25 mL mark with the sample to be tested (fig. 1).
- 2. Place the CHEMet ampoule, tip first, into the sample cup. Snap the tip. The ampoule will fill leaving a bubble for mixing (fig. 2).
- 3. To mix the ampoule, invert it several times, allowing the bubble to travel from end to end.
- 4. Dry the ampoule. Obtain a test result 5 minutes after snapping the tip.
- 5. Obtain a test result using the comparator.
 - a.For K-8530 (fig. 3): Place the ampoule, flat end first, into the comparator. Hold the comparator up toward a source of light and view from the bottom. Rotate the comparator until the best color match is found.
 - b.For K-8515 (fig. 4): Place the ampoule between the color standards until the best color match is found.









Test Method

The Phosphate CHEMets®1 test method employs the vanadomolybdophosphoric acid chemistry.^{2,3} In an acidic solution, ortho-phosphate reacts with ammonium molybdate and ammonium vanadate to produce a yellow colored complex in direct proportion to the phosphate concentration.

Condensed phosphates (pyro-, meta-, other and polyphosphates) and organically bound phosphates do not respond to this test. Sulfide, thiosulfate, and thiocyanate will cause low test results.

1. CHEMets is a registered trademark of AquaPhoenix Scientific, LLC U.S. Patent No. 3,634,038 2. APHA Standard Methods. 23rd ed., Method 4500-P C - 2005 3. ASTM D 515 - 82. Phosphorus in Water. Test Method C

Safety Information

Read SDS before performing this test procedure. Wear safety glasses and protective gloves.

