Chromate CHEMets® Kit

K-2810/R-2810: 0 - 1 & 1 - 10 ppm

Safety Information

Read SDS (available at www.chemetrics.com) before performing this test procedure. Wear safety glasses and protective gloves.

Test Procedure

- 1. Fill the sample cup to the 20 mL mark with the sample to be tested (fig. 1).
- 2. Add 4 drops of A-2800 Acidifier Solution (fig. 2). Stir to mix the contents of the cup.
- 3. Place the CHEMet ampoule, tip first, into the sample cup. Snap the tip. The ampoule will fill leaving a bubble for mixing (fig. 3).
- To mix the ampoule, invert it several times, allowing the bubble to travel from end to end.
- 5. Dry the ampoule. Obtain a test result **2 minutes** after snapping the tip.
- 6. Obtain a test result using the appropriate comparator.
 - a. Low Range Comparator (fig. 4): 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.

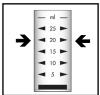


Figure 1



Figure 2

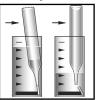
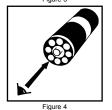


Figure 3



b. High Range Comparator (fig. 5): Place the ampoule between the color standards until the best color match is found.

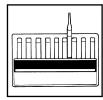


Figure 5

Test Method

The Chromate CHEMets^{®1} test method employs the diphenylcarbazide chemistry.^{2,3} In an acidic solution, hexavalent chromium reacts with diphenylcarbazide to form a red-violet colored complex in direct proportion to the hexavalent chromium concentration.

- CHEMets is a registered trademark of CHEMetrics, Inc. U.S. Patent No. 3.634.038
- 2. APHA Standard Methods, 23rd ed., Method 3500-Cr B 2009 3. ASTM D 1687 02, Chromium in Water, Test Method A

Visit www.chemetrics.com to view product demonstration videos. Always follow the test procedure above to perform a test.



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