

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).
4. To mix the ampoule, invert it several times, allowing the bubble to travel from end to end.
5. Dry the ampoule and wait **2 minutes** for color development.
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.

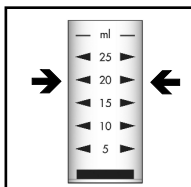


Figure 1

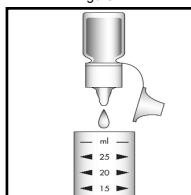


Figure 2

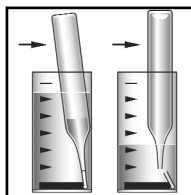


Figure 3

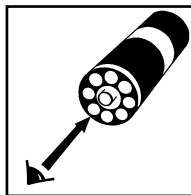


Figure 4

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

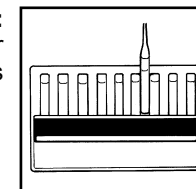


Figure 5

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.

1. CHEMets is a registered trademark of CHEMetrics, Inc. U.S. Patent No. 3,634,038
2. APHA Standard Methods, 22nd 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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Mar. 18, Rev. 7