Nitrite CHEMets® Kit

K-7006/R-7006: 0 - 0.1 & 0 - 1 ppm N

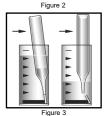
Safety Information

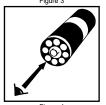
Read SDS before performing this test procedure. Wear safety glasses and protective gloves.

Test Procedure

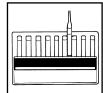
- 1. Add 5 drops of S-7004 Acidifier Solution to the empty sample cup (fig. 1).
- 2. Fill the sample cup to the 25 mL mark with the sample to be tested (fig. 2). Stir to mix the contents of the cup.
- 3. Place the CHEMet ampoule, tip first, into the sample cup. Snap the tip. The ampoule will fill leaving 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 8 minutes after snapping the tip.
- 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.







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



Figure

Test Method

The Nitrite CHEMets^{®1} test kit employs the azo dye method.^{2,3} In an acidic solution, nitrite diazotizes with the primary aromatic amine N-(1-naphthyl)ethylenediamine dihydrochloride (NED) and then couples with sulfanilic acid to produce a highly colored azo dye. The resulting pink color is proportional to the nitrite concentration in the sample.

- CHEMets is a registered trademark of AquaPhoenix Scientific, LLC U.S. Patent No. 3.634.038
- 2. APHA Standard Methods, 23rd ed., Method 4500-NO₂-B 2000.
- EPA Methods for Chemical Analysis of Water and Wastes, Method 354.1 (1983).

