# Ozone CHEMets® Kit

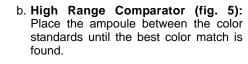
## K-7404/R-7404: 0 - 0.6 & 0.6 - 3 ppm

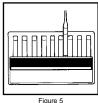
#### **Safety Information**

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

### **Test Procedure**

- 1. Add 5 drops of A-7400 Activator Solution to the empty sample cup (fig. 1).
- 2. Fill the sample cup to the 25 mL mark with the sample to be tested, being careful to minimize turbulence (fig. 2).
  - Note: Ozone loss from sample occurs rapidly. Do not transfer sample to other containers.
- 3. Immediately 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 **1 minute** 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.





#### **Test Method**

The Ozone CHEMets<sup>®1</sup> test kit employs the DPD chemistry.<sup>2,3</sup> The sample is treated with an excess of potassium iodide. Ozone oxidizes the iodide to iodine. The iodine then oxidizes DPD (N,N-diethyl-p-phenylenediamine) to form a pink colored species in direct proportion to the ozone concentration.

Various oxidizing agents such as halogens, ferric ions and cupric ions will produce high test results.

- 1. CHEMets is a registered trademark of CHEMetrics, Inc. U.S. Patent No. 3,634,038
- 2. APHA Standard Methods, 22nd ed., Method 4500-Cl G 2000
- 3. EPA Methods for Chemical Analysis of Water and Wastes, Method 330.5 (1983)

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



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Simplicity in Water Analysis

Mar. 18, Rev. 3



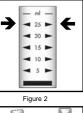




Figure 4