Taylor's Nitrite Test Kits

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INTRODUCTION

odium nitrite-based treatments are commonly used to establish a protective film on ferrous metal surfaces in closed cooling water systems and boilers. Cooling water may contain sodium nitrite as high as 1000 ppm, while boiler water may contain up to 1500 ppm.

To reduce treatment program costs, nitrite is often blended with molybdenum in closed cooling water systems. Taylor offers a molybdenum test (K-1805 or K-1805P) for monitoring these systems, but users should be aware levels of nitrite over 800 ppm may negatively interfere with the molybdenum test. In these cases, dilute the sample with demineralized water that is molybdenum- and nitrite-free. Alternatively, you can test the nitrite residual instead, using the K-1563.

Taylor's drop-count and buret titrations for monitoring sodium nitrite use either the permanganate method or the ceric oxidation of nitrite method (commonly called the "CAN" method). In cooling systems treated with glycol antifreeze, the "CAN" method must be used to prevent test interference.

Individual nitrite kits are listed below. For combination kits that contain a nitrite test, refer to the "Boiler/Cooling Systems" section of our price list.

NITRITE KITS

K-0440

Buret titration reagent pack (permanganate method using acid sulfate); 1 mL = 3.45 mg NaNO₂

K-1510

Drop test (ceric oxidation of nitrite method); $1 \text{ drop} = 40 \text{ ppm NaNO}_2$

K-1539

Drop test (permanganate method using H_2SO_4); $1 \text{ drop} = 100 \text{ ppm NaNO}_2$

K-1563

Drop test (permanganate method using acid sulfate); $1 \text{ drop} = 100 \text{ ppm NaNO}_2$

K-1564

Drop test (permanganate method using acid sulfate); $1 \text{ drop} = 25 \text{ ppm NaNO}_2$

K-1565

Drop test (permanganate method using acid sulfate); $1 \text{ drop} = 50 \text{ ppm NaNO}_2$



The drop-count titration in Taylor's K-1510 uses the "CAN" method (ceric oxidation of nitrite) to prevent interference in systems treated with glycol.

USER BENEFITS

• Titrations do not require the ability to match colors, only the ability to see the permanent color change at the endpoint of the reaction.

• Test kits **come complete** with all necessary reagents and equipment; reagent packs contain an instruction and reagents only.

• These test kits are practical for both **on- and off-site** testing.

• Waterproof instructions are printed on plasticimpregnated paper that resists fading and tearing.

• Picture guides to color transitions in the test reassure new users.

• Custom-molded, durable plastic cases provide safe storage for all tests.

• Proven chemistries are based on Standard Methods for the Examination of Water and Wastewater, APHA, Washington, DC, and/or American Society for Testing and Materials, ASTM, Philadelphia, PA. Some methods use proprietary chemistry developed by Taylor Technologies.



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ISO 9001:2008 Certified

ALSO AVAILABLE

- Individual replacement reagents.
- Various **combination kits** (K-1646, K-1680, K-1690, K-1692, K-9105) for industrial water treaters that contain a nitrite test.
- A wide array of single- and multiparameter kits featuring color-matching and/or drop-count tests.
- Complementary tests for **nitrate**, **molybdenum**, and **anaerobic bacteria** (nitrite-based closed systems should be tested routinely for anaerobic bacteria contamination).
- Taylor's TTi[®] Colorimeter (M-3000); test 30+ parameters commonly encountered in commercial and industrial settings and transfer results to a PC database.
- Myron L Company portable instruments and calibration solutions (sold separately in reagent packs).
- Testing supplies and kit replacement parts (e.g., burets, flasks, test tubes, and test cells).
- Video demonstrations for new users posted on our website.
- Toll-free technical assistance at 800-TEST KIT.

REPRESENTATIVE TEST PROCEDURE

Reproduced from K-1510 instruction:

