Taylor's Chloride Test Kits

INTRODUCTION

hloride is one of the major inorganic anions in water and wastewater. High concentrations of chloride may contribute to corrosion of metal pipes and related structures. A key determination for **industrial water treaters**, chloride is mainly tested to control blowdown in boilers and bleed-off in cooling systems. Chloride tests are also employed to characterize boiler feedwater and to detect leaks in some types of condensers.

Chlorides are determined titrimetrically using either the **argentometric** or **mercuric nitrate** method. In the argentometric method, potassium chromate indicates the endpoint by forming red silver chromate with excess silver ions. In the mercuric nitrate method, diphenylcarbazone indicates the endpoint by formation of a purple complex with excess mercuric ions.

Note: Bromide and iodide titrate as equivalent chloride concentrations. Sulfite interferes but can be removed with hydrogen peroxide. High orthophosphate and iron may interfere.

CHLORIDE KITS

K-1506

Drop test (using the argentometric method) for neutral pH waters; 1 drop = 10, 25, 50, 100, or 500 ppm Cl⁻

K-1549

Drop test (using the argentometric method) for high pH waters; 1 drop = 10, 25, 50, 100, or 500 ppm Cl⁻

K-1549S

Drop test (using the argentometric method) **for high pH** waters; 1 drop = 10 ppm Cl⁻

K-1598

Drop test (using the mercuric nitrate method); 1 drop = 2 or 10 ppm Cl⁻

K-1767

Drop test (using the argentometric method); 1 drop = 20, 40, 100, 200, or 800 ppm Cl⁻



The K-1549 drop-test kit will perform 180 tests at 200 ppm.

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.
- Drop-test kits are practical for both on- and off-site testing.
- Test kits **come complete** with all necessary reagents and equipment.
- 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.

tay of the most trusted name in water testing

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ISO 9001:2015 Certified

ALSO AVAILABLE

- SampleSizer[®] (#6190) for 10/25 mL test volumes and SpeedStir[®] (#9265) magnetic stirrer save time for frequent testers.
- A wide array of single- and multiparameter kits featuring color-matching and/or drop-count tests.
- 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.
- 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-1549 instruction:

