

# Don't Be Fooled by False-High Chlorine Readings Due to Potassium Monopersulfate



Potassium monopersulfate (such as Dupont's Oxone®) is widely used in chlorine-sanitized pools and spas to reduce the load of organic contaminants, thereby making more chlorine available for disinfection. While it is a quick and effective cleansing agent, **this oxidizer has one drawback: It interferes with both DPD (liquid and tablet) and FAS-DPD chlorine tests that employ DPD Reagent #3.**

**Some pools have even been closed because of false-high combined chlorine (chloramine) readings resulting from a monopersulfate shock treatment used.** For this reason, regulatory authorities need to be aware of monopersulfate interference when conducting their inspections. Conversely, **chlorine will interfere with most tests for potassium monopersulfate**, since both are strong oxidizers.

**A solution is now at hand.** In cooperation with DuPont, Taylor® has developed a method to **distinguish between** the levels of **free chlorine, combined chlorine**, and the **monopersulfate** compound in the water. **Taylor's drop-test kit K-1518** contains **Deox Reagent** to **eliminate monopersulfate interference** in the chlorine test. It employs FAS-DPD to determine free and combined chlorine levels. Using this product, pool managers, service technicians, and homeowners can also **monitor the level of potassium monopersulfate** in the water **with confidence.**

Alternatively, analysts using a number of combination kits may **add Deox Reagent to their existing setup** to eliminate interference from monopersulfate when testing chlorine. See chart on the reverse side. **Deox Reagent will work with these Taylor liquid DPD and FAS-DPD tests containing DPD #3.**

## DEOX PRODUCTS

### K-1518

Drop tests measuring free & combined chlorine & monopersulfate; 1 drop = 0.2 ppm chlorine/1 drop = 0.2 ppm monopersulfate compound as chlorine (Cl<sub>2</sub>); 2 oz. bottles

### K-1520

Deox Reagent supplement for Residential™ test kits (K-1004 and K-1005) to eliminate interference from monopersulfate in the chlorine test; .75 oz. bottles

### K-2041

Deox Reagent supplement for 2000 Series™ kits to eliminate interference from monopersulfate in the chlorine test; 75 oz. bottles

### K-2042

Deox Reagent supplement for 2000 Series kits to eliminate interference from monopersulfate in the chlorine test; 2 oz. bottles

## USER BENEFITS

- **Eliminates false chlorine readings** due to interference by potassium monopersulfate.
- The level of **potassium monopersulfate can itself** be monitored with accuracy using the K-1518.
- Drop tests utilize a color change to signal the endpoint—**no need to use complicated formulas** to determine final values.
- Custom-molded plastic cases provide **safe storage.**
- **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 Water Technologies.

**ALSO AVAILABLE**

- Complementary combination test kits with either .75 oz. or 2 oz. bottles of reagents.
- Individual replacement reagents.
- Other testing supplies and replacement parts (e.g., burets, flasks, test tubes, and test cells).
- Free technical assistance at **800-TEST KIT**.
- Our water analysis software is available at [www.sureTREAT.com](http://www.sureTREAT.com).

This chart will help you choose the best Deox Reagent supplement for your preferred test kit. Find your kit in the first column and follow the row to the right to find the best kit for you!

<b>SELECTION GUIDE</b>			
<b>Test Kit</b>	<b>K-1520 (.75 oz)</b>	<b>K-2041 (.75 oz)</b>	<b>K-2042 (2 oz)</b>
<b>K-1004</b>	•		
<b>K-1005</b>	•		
<b>K-1515-A</b>		•	
<b>K-1515-C</b>			•
<b>K-2000</b>		•	
<b>K-2005 &amp; K-2005-SALT</b>		•	
<b>K-2005C &amp; K-2005C-SALT</b>			•
<b>K-2006 &amp; K-2006-SALT</b>		•	
<b>K-2006C &amp; K-2006C-SALT</b>			•
<b>K-2007</b>			•
<b>K-2007C</b>		•	
<b>K-2009</b>		•	
<b>K-2015</b>		•	
<b>K-2100</b>		•	
<b>K-2105</b>		•	
<b>K-2105C</b>			•
<b>K-2106</b>		•	