

# Dissolved Oxygen Test Kit

- High Range Test (1–20 mg/L) • Technique gamme haute
- Test für den hohen Bereich • Determinación de valores altos



1. Fill the Dissolved Oxygen bottle (round bottle with glass stopper) with sample water by allowing the sample water to overflow the bottle for 2–3 minutes. Avoid turbulence and bubbles in the sample while filling.

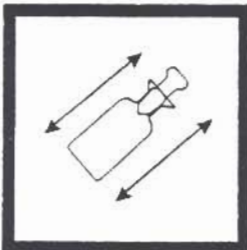


- ~~2. Incline the bottle slightly and insert the stopper with a quick thrust to avoid trapping air bubbles. If bubbles become trapped, discard the sample and repeat the test.~~

*Do not insert stopper until reagents 1 & 2 have been added*



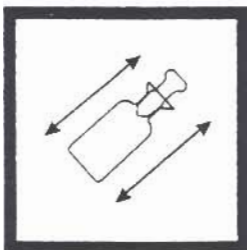
3. Remove the stopper and add the contents of one Dissolved Oxygen 1 Reagent Powder Pillow and one Dissolved Oxygen 2 Reagent Powder Pillow. Stopper the bottle carefully to avoid trapping air bubbles. If bubbles become trapped, discard the sample and repeat the test.



4. Shake the bottle vigorously to mix. Flocculant (floc) precipitate will form. Brownish-orange precipitate indicates oxygen is present.



5. Wait for floc to settle to approximately half the bottle volume. Floc will not settle if high concentrations of chloride are present. In this case, wait 4–5 minutes before proceeding.



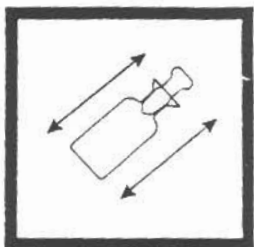
6. Shake the bottle vigorously again.



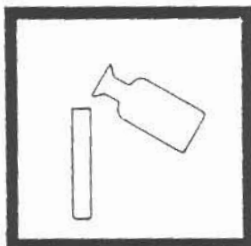
7. Wait for floc to settle halfway. Floc will not settle if high concentrations of chloride are present. In this case, wait 4-5 minutes before proceeding.



8. Remove the stopper and add the contents of one Dissolved Oxygen 3 Reagent Powder Pillow. Stopper the bottle carefully to avoid trapping air bubbles. If bubbles become trapped, discard the sample and repeat the test.



9. Shake the bottle vigorously to mix. Floc will dissolve and the sample will turn yellow if oxygen is present.



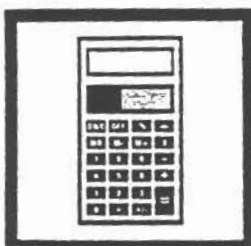
10. Fill plastic tube full (to the top) with prepared sample  
*Note: Save the rest of the prepared sample for the Low Range Test, if necessary.*



11. Pour the contents of the tube into a square mixing bottle.



12. Add Sodium Thiosulfate Standard Solution one drop at a time to the mixing bottle. Count each drop. Swirl to mix after each drop. Add drops until the sample becomes colorless.



13. The total number of drops of titrant used in Step 12 equals the total mg/L Dissolved Oxygen.

$$\text{mg/L Dissolved Oxygen} = \text{number of drops}$$

*Note: If the result of Step 13 is 3 mg/L or less, it is advisable to perform a more sensitive test. Follow Low Range Test instructions.*