INSTRUCTIONS FOR

CLOR-D-TECT®1000

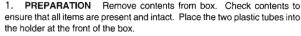
Used Oil Screening Kit Test kit for chlorine contamination in used oil

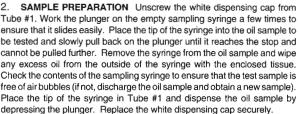
EACH KIT CONTAINS:

- Tube #1 A plastic test tube with a white dispensing cap containing a colorless ampule (bottom) and a yellow-dotted, gray ampule (top).
- Tube #2 A plastic test tube with yellow cap containing 7 ml of buffer solution, a yellow-dotted ampule (bottom) and a red-green ampule (top).
- 3. A 1 ml polypropylene sampling syringe and a tissue wipe.
- A plastic filtration funnel.
- A glass ampule contained in a cardboard sleeve and plastic tube designated as "Disposal Ampule".

READ CAUTION AND INFORMATION SECTIONS ON BACK BEFORE PERFORMING TEST. WEAR RUBBER GLOVES AND SAFETY GLASSES.

DIRECTIONS





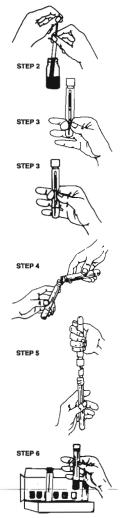
3. REACTION Break the bottom (colorless) ampule in the tube by compressing the sides of the tube. Mix thoroughly by shaking the tube vigorously for about 30 seconds. Break the top (gray) ampule in the tube and shake thoroughly for about 20 seconds. Allow the reaction to proceed for an additional 40 seconds (total of one minute), while shaking intermittently several times.

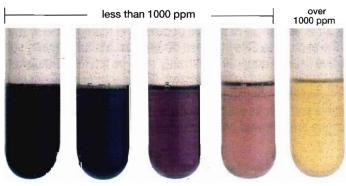
4. EXTRACTION Remove the caps from both tubes and pour the clear buffer solution from Tube #2 (yellow cap) into Tube #1. Replace the white cap tightly on Tube #1 and shake vigorously for about 10 seconds. Vent the tube carefully by partially unscrewing the dispensing cap. Close securely and shake well for an additional 10 seconds. Vent again, tighten cap and stand tube upside down on its cap. Allow the phases to separate for a full two migutes.

5. **ANALYSIS** Put the plastic filtration funnel into Tube #2. Position Tube #1 over funnel and open nozzle on the dispensing cap. Be sure to point the nozzle away from the operator while opening it, and check that the nozzle is open completely before dispensing the clear solution. Dispense 5 mls of the clear solution through the filter into Tube #2 (up to the 5 ml line) by squeezing the sides of Tube #1. Do not allow any oil to pass through the filter into Tube #2. Close the nozzle on the dispensing cap on Tube #1 and remove the filter funnel from Tube #2. Replace the yellow cap on Tube #2 and break the bottom (colorless, yellow-dot) ampule and shake for 10 seconds. Break the top (colored) ampule and shake for 10 seconds.

RESULTS Observe the resultant color immediately and compare to the color chart below for chlorine determination.

7. **DISPOSAL** Open the "Disposal Ampule" container and drop the ampule into Tube #2. Replace the cap on the test tube. Crush the ampule by squeezing the sides of the tube. Shake for 5 seconds: This reagent immobilizes the mercury so that the kit passes the EPA's TCLP test. See caution section below for additional information on disposal.





DEXSIL®

CLOR-D-TECT 1000 IS A TRADEMARK OF THE DEXSIL CORPORATION AND IS COVERED UNDER U.S. PATENTS 5,013,667.

SUGGESTIONS FOR USING THE CLOR-D-TECT® 1000 TEST KIT

- To test at 500 ppm chlorine instead of 1000, double the oil sample size by filling the sampling syringe twice.
- The kit is designed for testing used oils, and is not intended for use on water/oil mixtures that contain more than 20% water. For samples that contain more than 20% water, contact Dexsil about our Hydroclor-Q® kit designed for testing samples for chlorinated organic compounds in water.
- The kit works well on all types of waste and used oils including crankcase, hydraulic, diesel, lubricating, fuel oils and kerosene. It is designed for use only on oils which are hydrocarbon-based. Some oil, such as cutting oils which contain more than 3 or 4% sulfur, may give false positive results, false negatives are, however, unlikely. For any questions regarding the applicability of the kit on your sample, contact Dexsil's technical service department.
- The kit should be examined upon opening to see that all of the components are present and that all the ampules (5) are in place and not leaking. The liquid in Tube #2 (yellow cap) should be approximately 1/2 inch (1 cm) above the 5 ml line and the tube should not be leaking. The ampules are not intended to be completely full.
- Perform the test in a warm, dry area with adequate light. In cold weather, a truck cab is sufficient. If a warm area is not available, Step 3 should be performed while warming Tube #1 in palm of hand.
- Always crush the clear ampule in each tube first. If this sequence has not been followed, stop the test immediately and start over using another complete kit. When an incorrect testing sequence is followed, a false negative may result which may allow a contaminated sample to pass without detection.
- In Step 4, tip Tube #2 to an angle of only 45° to prevent the ampule holder from sliding out.

CAUTION

- When crushing the glass ampules, press firmly in the center of the glass ampule ONCE. Never attempt to recrush broken glass as it may come through the plastic and cut fingers.
- In case of accidental breakage onto skin or clothing, wash immediately with large amounts of water. All the ampules are poisonous and should not be taken internally.
- Do not carry kits on passenger aircraft.
- The gray ampule in the white-capped test tube contains metallic sodium.
 Metallic sodium is a flammable solid and is water reactive.
- Wear rubber gloves and safety glasses while performing test.
- Dispose of used kits properly. The mercury in Tube #2 is made insoluble by the disposable ampule and used kits will pass the USEPA TCLP test for land disposal. More stringent state and local regulations may apply. Contact Dexsil if you have any specific questions concerning disposal procedure.
- Read the Material Safety Data Sheet before performing the test.
- Keep Out of Reach of Children.

MANUFACTURER'S WARRANTY

This kit is warranted to be free of defects in material and workmanship until the expiration date stamped on the box. Manufacturer's sole and exclusive liability under this warranty shall be limited to replacement of any kit that is proved to be defective. Manufacturer shall not be liable for any incidental or consequential damages.

Reliable test results are highly dependent upon the care with which the directions are followed and, consequently, cannot be guaranteed.

This kit was manufactured by LEXSIL® Corporation
One Hamden Park Drive, Hamden, Connecticut 06517
(203) 288-3509 FAX: (203) 248-6523
http:\\www.dexsii.com

