

# Dexsil Wipe Test Kit WT-KT for PCB

The Dexsil Wipe Test Kit for PCB contains the following:

## CONTENTS

1. Eight 20 ml screw-top vials, each containing a 2" by 2" gauze pad.
2. Eight disposable forceps.
3. Eight break-top ampules, each containing 2.5 mL hexane (wipe solvent).
4. Eight disposable wiping templates: Three each, square and rectangle, and two circles, all measuring 100 cm<sup>2</sup>.
5. One pair safety goggles.
6. Two pairs of PCB resistant gloves.
7. One postage-paid mailer for returning up to eight samples for GC analysis.  
NOTE: Cost of analysis at Dexsil's laboratory is not included in the price of this kit.
8. Template adhesive tape.
9. One plastic PCB waste bag.
10. Eight PCB labels for sample vials.
11. One Chain of Custody Form.

## PROCEDURE

1. EXTINGUISH AND DISPOSE OF ALL SMOKING MATERIALS BEFORE ENTERING THE TEST AREA. Choose the surface from which the wipe sample is to be taken and decide which shape template is best suited for that area.
2. If possible, tape the template into position. Be ready to perform the wiping procedure immediately, as the solvent will quickly evaporate from the gauze.
3. Using a pair of forceps, remove a gauze sample from one of the twenty ml glass vials. Be careful not to touch the gauze to anything that may contaminate it.
4. CHECK THE ENTIRE AREA FOR ANY SOURCE OF HEAT, FIRE, SPARK, OR FLAME. The next step involves the use of an extremely flammable solvent and care must be taken that it is not exposed to any source of ignition.
5. Snap off the top of a hexane-containing ampule. Empty the contents entirely onto the gauze pad. The gauze may have to touch the edge of the ampule to draw out the solvent.
6. Start at the top of the template and work your way down wiping in horizontal strokes from left to right. Repeat twice with the same gauze pad to assure optimum removal of PCB residue.
7. Double wipe at least 5% of the total samples from each kind of surface at the spill site. Use a new, clean gauze pad and vial.

8. Air-dry the gauze for one or two minutes and then replace it in the 20 mL vial. Label the vial to exactly identify the sample that was taken. Be sure to note that the area wiped was 100 cm<sup>2</sup>. Tape the vial closed to ensure that it does not open during shipment to point of analysis.
9. Place used templates, used forceps, and any other possibly contaminated materials in the poly bag provided with the wipe test kit. Make sure that the bag is disposed of as PCB waste.
10. Enter the required information on the Chain of Custody form and send the sample as soon as possible to the laboratory for analysis.
11. FIELD BLANK: To prove that the sampling equipment is not contaminated, it is necessary that a blank sample be sent along with the wipe samples from each area. Wet the gauze with hexane, air dry and return the clean gauze pad to the vial. Return to the laboratory with wipe samples and double wipe samples for analysis.

### **REFERENCES**

EPA-560/5-85-026 August, 1985, "Verification of PCB Spill Cleanup By Sampling and Analysis." page 41.

EPA-560/5-86-017 May, 1986, "Field Manual For Grid Sampling of PCB Spill Sites to Verify Cleanup." page 33.

Federal Register Part III EPA 40 CFR Part 761 "Polychlorinated Biphenyl Spill Cleanup Policy; Final Rule," Thursday April 2, 1987.

Smith, John H., Ph.D.; EPA Washington, D.C. "Wipe Sampling and Double Wash/Rinse Cleanup As Recommended By The EPA Spill Cleanup Policy." June 23, 1987.