RESEARCH DEPARTMENT - PHOSPHATE DIVISION

Test Method from Research Report No. 2492

Crystallinity Test for Aroclor 5460

Scope: This method applies only to Aroclor 5460 and indicates the tendency of any crystalline compounds to precipitate in acetone or a non-aromatic solvent.

Materials Used: Acetone - Technical Grade - Carbide and Carbon
Aroclor 5460 - plant production

Procedure: The Aroclor 5460 sample is first broken up into small lumps to facilitate solution. Using a 2-ounce bottle with screw cap, the test is made as follows:

1. Weigh 25 grams of Aroclor 5460 into sample bottle.
2. Add 25 grams Acetone.
3. Place cap on bottle and shake vigorously until all the Aroclor is dissolved. Caution: Use an aluminum foil insert in bottle cap.
4. Allow solution to stand at room temperature (70-80°F.) for 2 days.
5. Check the bottom and sides of the sample bottle for evidence of precipitation. If there is no white deposit after 2 days the Aroclor shall be considered satisfactory for varnish and lacquer use.

Notes:

Most of the crystalline material will come from the Aroclor having a chlorine content over 60%. It is, therefore, desirable to control the Aroclor 5460 in the low end of the softening point range until it is thought advisable to adjust the specifications of Aroclor 5460 to a lower range which will eliminate the crystalline product.

A. M. Ellenburg

AME:rs
1-15-51

DSW 330815

STLCOPCB4077459