DIRECTIONS FOR TEST NO. 14-40-45

SUBJECT: CRYSTALLINITY METHOD FOR TESTING AROCLOR 4465 (Anaconda Grade)

METHOD:

Scope of Test

The test is made to be sure that Anaconda Wire and Cable Company is shipped only a non-crystalline Aroclor for their use in a solvent mix.

Raw Materials

Aroclor 4465, lot under test
Aroclor 1254, plant product
Solvent Naphtha No. 4 or No. 54, Std. Oil of N. J.
Seed crystals, sized to minus 100 plus 200 mesh,
from Anaconda's pipe lines

Recommended Procedure for Test-Agitated

Weigh into a 500 cc round bottom boiling flask the following ingredients:

141 gms Solvent Naphtha No. 4
150 gms Aroclor 4465 to be tested
9 gms Aroclor 1254
300 gms Total

Pour Aroclor 4465 molten at approximately 100°C. into the solvent, then add Aroclor 1254. Stir slowly to get Aroclor in solution. Cool to room temperature and add 0.001% or 0.003 gms. of seed crystals.

Place stirrer into the mix through a hole in stopper and attach to a source of power. Either an electric laboratory stirring motor or an air propelled turbine will furnish the necessary force.

Stir the contents continuously and vigorously for five days or until a definite cloudiness or crystal formation is perceived.

After five days if no crystal formation has occurred, the solvent mix can be discarded and the Aroclor reported as approved for Anaconda shipment. In case of a sediment in the test during the five-day period, the sample can be discarded and the lot of Aroclor must be rejected for shipment to Anaconda by reporting it to the operating department.

Alternative Method for Test-Static

Prepare the following mix in a 2-ounce screw-cap bottle:

23.5 gms. of solvent Naphtha No. 4
25.0 gms. Aroclor 4465 to be tested
1.5 gms. Aroclor 1254
50.0 grams Total

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DIRECTIONS FOR TEST NO._____

SUBJECT: ~~Method for Testing Aroclor 4465 (Anaconda Grade) Page 2.~~

METHOD:_____

Warm bottle to get the contents in solution. Cool to room temperature and add 0.001% or 0.0005 gms. of seed crystals, then stopper bottle tightly.

Allow bottle to stand under observation for 10 days with agitation by shaking at least once a day.

After 10 days if no definite crystal formation has occurred, the samples can be discarded and the Aroclor reported as passing the crystallinity test. However, if sediment does occur in the sample in less than 10 days, the Aroclor is reported immediately as being rejected for Anaconda's use.

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