Date: 12-15-48 Material: Aroclors and Pyranols Method No. 10,126-48
BY: SE:HOH W.G.K. Dept. No. 246
Ref: Test: Corrosion and Chemical Stability Page 1

This test is run on Aroclors 1260 and 1254, and Pyranols 1467, 1481, and 1478 (TCB).

1. Roll a 1-g. rectangular piece (ca. 2 in. x 4 in.) of aluminum foil so that it will pass through a S 24/40 joint. Be careful that after rolling the specimen does not touch itself at any point.

2. Wash the aluminum foil scrupulously, with acetone, distilled water, acetone, benzene, and chloride-free ether, place on a clean watch-glass, and dry in an oven at 110°C. for 30 minutes. After cleaning, handle the specimen with tongs or forceps only.

3. Weigh the aluminum foil at room temperature (± 0.00005 g.)

4. Drop the weighed specimen into the chloride-free corrosion flask of the "G.E. Corrosion Apparatus." Rinse out flask with sample and rinse end of condenser with sample.

5. Add 200 ml. of sample to the aluminum foil.

6. Set the corrosion flask in the corrosion test apparatus.

7. Attach a 12- inch straight-tube air-cooled condenser, the outside of which is painted with aluminum.

8. Cover the exposed part of the flask with aluminum foil.

9. Heat for 6.0 ± 0.1 hours at 210°C. ± 5°C. Detach condenser from the flask before removing the flask from the hot plate. (Cover the flask with aluminum foil when the flask is not in use.

10. Without removing the foil analyze the Aroclor or Pyranol sample remaining in the corrosion apparatus for (a) appearance, color, and condition (Method No. 10,084), (b) inorganic chlorides (Method No. 10,118), and (c) acid number (Method No. 10,087).

11. With a pair of clean, straight nichrome tongs, remove the aluminum foil specimen, wash thoroughly, dry and weigh (± 0.00005 g.) as before (steps 2 and 3).

Report the loss or gain in weight to the nearest 0.0001 g. and the anaylsis of the Aroclor in the same manner as reported for the original material.

Notes:

1. The corrosion flask is a 300 ml Pyrex flask with a 34/45 g.g. joint and the condenser is a 12-inch straight-tube air-cooled condenser to fit, painted with aluminum.

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Notes (Cont'd)

2. G. E. Corrosion Apparatus consists of a transite box 32 in. long by 8 in. wide by 5 inches deep. The top of the box consists of a split transite board with holes cut to fit the flasks. The box is heated by two 500-watt, 15 volt G.E. strip heaters with offset terminals at one end (23½" overall length). The heating length is covered by a copper strip 19½ in. long, 4 in. wide, and 1/4 in. thick. The temperature is controlled by an automatic thermostat with temperature setting indicator.

Copied from WGK Procedure Manual
8-30-56
jb

Notes and amendments given to W.B.D. by telephone

1. In Section 2:

Order of foil washing:	benzene alcohol acetone no water
Time in drying oven:	10 minutes

2. In Section 7

Length of condebser: 18 inches

Condenser wrapped with foil instead of painted

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