Date: 2/26/53 Material: Aroclors, Pyranols, Method No. 11,751-53
By: CM,HOH,LJW, Inerteens, and Tri-Tetrachloro- W.G.K. Dept. No. 253,
WJG,NPA:SMK benzene Blends
Test: Procedure for Cleaning Page: 1 (of 2 pages)
of Electrodes, G.E. Cell, and Accessories

A. The Electrodes Cleaning Procedure:

1. Remove the electrodes from the tested material while hot and allow them to drain.

2. Place the electrodes in hot TCB for 10 minutes.

3. Wash with unheated TCB.

4. Rinse twice with methanol and twice with tap water.

5. Place the electrodes in hot 10% T.S.P. solution. Soak and heat for 10 minutes.

6. Wash thoroughly with tap water.

CAUTION: After Step 6 -- DO NOT TOUCH THE ELECTRODES WITH HANDS

7. Wash with distilled water twice.

8. Dry in drying oven for at least two hours at 120°C.

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of Electrodes, G.E. Cell, and Accessories

B. The G. E. Cell Cleaning:

1. Reclean the Cell before use, if more than 8 hours have elapsed since the previous cleaning.

2. Follow the procedure for the electrodes starting at Step 4.

C. Cleaning of the Accessories:

1. Apply the same cleaning procedure as given for the electrodes (Steps 1 to 8) to prepare the glass spacer and beaker for next test.

2. Clean the thermometer in the same manner as the electrodes. except for Step 8.

3. Place the wet thermometer (after Step 7) directly in position in the Temperature Heating Unit (Modified Fisher Isotemp Oven) and allow to dry.

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Date: 2/26/53 Material: Aroclors, Pyranols, Inerteens, and Tri-Tetrachloro-benzene Blends Method No. 11,752-53
By: CM,LJW, W.G.K. Dept. No. 233/246
Test: Electrical Measurements Page: 1 (of 2 pages)

Introduction:

Some of the Aroclors, Pyranols, Inerteens, and Tri-Tetrachlorobenzene Blends have important industrial uses based on their electrical properties. Therefore, tests for certain electrical properties are made on these products.

General Information:

The tests should be run in the following order:

Test	Method No.
1. Dielectric Constant	11,608
2. Power Factor (if needed)	11,608
3. Resistivity	11,607
4. Dielectric Strength	11,605

The terms, which are used in connection with the above listed electrical measurements, are defined as follows:

1. Dielectric: A dielectric is an insulating or non-conducting material.

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Test: Electrical Measurements Page: 2 (of 2 pages)

2. Dielectric Constant: The dielectric constant is the ratio of the equivalent parallel capacitance of a capacitor in which the material is the dielectric, measured at a specified frequency, to the capacitance of the same capacitor with a vacuum as the dielectric, and is represented by the symbol K. The K of air may be considered equal to that of a vacuum.

3. Capacitor: A capacitor consists of an electrical conductor upon which an electric charge can be stored. In practice, a condenser consists of two or more metallic plates separated by a dielectric.

4. Resistivity: In the metric-system, the volume resistivity of a material is the resistance between two electrodes which cover opposite faces of a centimeter cube. It is expressed in ohms/cm^3.

5. Dielectric Strength: Dielectric Strength is the rupturing strength of an insulating material when subjected to voltage stress, under specific conditions and expressed in volts/milliampere. Breakdown varies with the shape of the electrodes and does not increase in proportion to the thickness of the dielectric.

6. Power Factor: The power factor of a dielectric is the ration of the energy loss in the dielectric to the "apparent power" in the

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DSW 551075

STLCOPCB4089492

Date: 9/13/54 Material: Aroclor, Pyranol, Inerteen Method No. 10,086-54
By: SE,DKL,NPA, Tri- Tetra Chlorobenzene W.G.K. Dept. No. 246
WWK:WJG Test: Viscosity Page: 1 (of 2 Pages)

1. Determine the viscosity according to General Method No. 25 (Method No. 11,453) Part B - Kinematic Viscosity.

2. For the products listed below use the following temperatures and series number of Ostwald Viscosimeter tubes:

Product	Temperature	Tube Series Number
1242 Aroclor (Distilled)	100°F. (37.8°C.)	100
1248 Aroclor	130°F. (54.4°C.)	200
1254 Aroclor (G.E. 1476) (Distilled)	210°F. (98.9°C.)	100
1260 Aroclor (G.E.1482) (Distilled	210°F. (98.9°C.)	200
1262 Aroclor (Distilled)	210°F. (98.9°C.)	200
1467 and 1488 Pyranol and Inerteen PPO	100°F. (37.8°C.)	100
1470 Pyranol	100°F. (37.8°C.)	100
1478 Pyranol (TCB)	100°F. (37.8°C.)	50 or 100
1481 Pyranol	100°F. (37.8°C.)	100

Calculation:

V = Ct
Where V = Viscosity in centistokes at T°F,
C = Tube constant (accompanying each tube) at T°F., and
t = efflux time in seconds at T°F.

Date: 9/13/54 Material: Aroclor, Pyranol, Inerteen Method No. 10,086-54
By: SE,DKL,NPA, Tri- Tetra Chlorobenzene W.G.K. Dept. No. 246
WWK:WJG Test: Viscosity Page: 2 (of 2 Pages)

Determine V to the nearest 0.05 centistokes.

Convert to Saybolt Universal Seconds using Chart No. B-7781.

Report to the nearest 0.1 S.U.S.

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