WESTINGHOUSE
ELECTRIC & MANUFACTURING COMPANY

Purchasing Department Specification No. 6935-B
(Not for publication) Ltd. X

INERTEEN (CAPACITOR)
("Arocelor 1254")

1. This specification covers Inerteen designated as follows:

P.D. Spec. Designation	Previous P.D. Spec.	Description
6935-1	6935	A viscous liquid chlorinated diphenyl which has a chlorine content approximating that of pentachlordiphenyl.
6935-2	None	Canceled, obsolete.

2. No change shall be made in the quality of successive shipments of material furnished under this specification without first obtaining the approval of the purchaser.

CHEMICAL PROPERTIES AND TESTS

3. ACIDITY: The acidity shall be less than 0.007 mg NaOH/gram, when tested in accordance with Westinghouse Elec. & Mfg. Co. Material Test Specification 80138, latest revision.

4. CHLORIDES: The material shall not contain more than 0.15 parts per million of free chlorides when tested in accordance with Westinghouse Elec. & Mfg. Co. Material Test Specification 80138, latest revision.

PHYSICAL PROPERTIES AND TESTS

5. DISTILLATION RANGE: (a) The distillation range, when tested in accordance with Method of Test for Distillation of Tar Products, D-20, latest revision, of the American Society for Testing Materials, shall be as follows:

10 per cent point between 365 and 370 C (690-698F)
50 per cent point between 370 and 377 C (698-710.6F)
90 per cent point between 377 and 390 C (710.6-734 F)

(b) The temperatures specified in Section 5 (a) have been corrected for stem exposure.

6. CONDITION: The material shall be clear.

7. SPECIFIC GRAVITY: The specific gravity at 65 C/15.5 C (149/60 F) shall not be less than 1.495 nor more than 1.505.

8. VISCOSITY: The viscosity, as determined with the Saybolt Universal Viscosimeter at 98.9 C (210 F), shall not be less than 44.5 seconds nor more than 47.5 seconds, when tested in accordance with standard Method of Test for Viscosity by means of the Saybolt Viscosimeter D-88, latest revision, of the American Society for Testing Materials.

9. COLOR: The Color shall not be greater than 150 A.P.H.A. as determined in accordance with Westinghouse Elec. & Mfg. Co. Material Test Specification 80138, latest revision.

10. POUR POINT: The pour point shall not be less than 8 C (46.4 F) nor more than 14 C (57.2 F) when tested in accordance with Methods of Test for Cloud and Pour Points, D-97, latest revision, of the American Society for Testing Materials.

11. ELECTRICAL RESISTIVITY: The electrical resistivity at 100 C (212 F) when tested at 500 volts DC shall be greater than 100×10^9 ohms/cm^3 when tested in accordance with Westinghouse Elec. & Mfg. Co. Material Test Specification 80138, latest revision.

12. DIELECTRIC CONSTANT: The dielectric constant at 100 C (212 F) shall not be less than 4.15 nor more than 4.35, when tested in accordance with Westinghouse Elec. & Mfg. Co. Material Test Specification 80138, latest revision.

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13. HEATING LOSS: The loss on heating at 100 C for six hours shall be less than 0.2 per cent, when tested in accordance with Westinghouse Elec & Mfg Co, Material Test Specification 90138, latest revision.

PACKING AND MARKING

14. PACKING: The Inerteen shall be shipped in drums or tank cars, as specified on the purchase order.

15. DRUMS: Drums shall conform to the regulations of the Interstate Commerce Commission.

16. MARKING OF DRUMS: Each drum shall be plainly marked as follows: Purchase Order Number; P.D. Spec. 6935-1-B; Net Weight in Pounds; Name of Manufacturer.

17. MARKING FOR TANK CARS: Each tank car shall have a packing slip bearing the following information: Purchase Order Number; P.D. Spec. 6935-1-B; Net Weight in pounds; Name of Manufacturer.

INSPECTION

18. INSPECTION: The manufacturer shall furnish the purchaser a test report with each shipment of Inerteen, and definitely identified with that shipment, covering the following properties:

Specific Gravity at 65 C/15.5 C (149/60 F)
Color (APHA)
Condition
Acidity
Free Chlorides
Pour Point
Viscosity at 98.9 C (210 F)
Distillation range
10% point
50%point
90% point
Dielectric Constant
Resistivity

19. SHIPMENT OF MATERIAL: (a) Material meeting the specification in all respects may be shipped without the purchaser's prior approval. The test report shall be forwarded to the purchaser at the time of shipment.

(b) Material varying in any manner whatsoever from the specification requirements shall not be shipped without the purchaser's approval. In such cases, the test report shall be forwarded to the purchaser, who will determine from this report whether the material is acceptable. The material shall be held at the place of manufacture until definite approval is received from the purchaser.

REJECTION

20. REJECTION: The purchaser reserves the right to reject any portion or all of the material which does not conform to the above specification in every particular and to return the rejected material to the manufacturer or seller for full credit at price charged f.o.b. point of delivery specified by the purchaser. If the material is to be replaced, a new order will be entered at prices, terms and conditions acceptable to the purchaser.

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