

Anniston, Alabama

May 27, 1949

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Westinghouse Electric Corporation
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Aroclor 1254 Specification

The subject firm's specification 6935-E for Inertene for capacitors (Aroclor 1254) reads exactly word for word like the last specification we have in Anniston which was dated February 5, 1944. Therefore, I think we are incorrect if we say that Westinghouse is tightening up on specifications now. To get the story behind the 1944 specifications No. 6935-C you will have to read the correspondence of the period 1942-1944.

These specifications have been very satisfactory during the past five years except for the distillation range, which I will review later. The acidity and heating loss which you questioned are very well within our product values. In 1947 we shipped 17 cars to Westinghouse which averaged 0.0018 mg NaOH/gm. on acidity and 0.023% on heating loss. It is apparent that the values in the specifications for these properties can be met with ease by our Aroclor Plant at Anniston. The viscosity range is the same as the one we have had for years and can readily meet.

Now in the case of the distillation range I would like to suggest some changes. If ASTM D-20 is followed in determining this property, I would like to point out the fact that on page 578 of "ASTM Standards 1946" under the method ASTM D-20, procedure (5) subsection (c) the following line: "No correction shall be made for the emergent stem of the thermometer."

Without the stem correction our specifications are as follows:

10% point between 350-355°C.

50% point between 355-362°C.

90% point between 362-375°C.

This would be our suggested distillation range.

If this is not acceptable and Westinghouse wishes to use a corrected temperature, we would like to know whether the (b) portion of section 5 of their specification also includes a barometric correction. Without the barometric correction, I see no reason for a stem correction alone.

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Since we have been shipping Arcelor 1254 from Anniston for the past three years, this need for a better understanding on the distillation range has been noticed. We hope that it can be arranged satisfactorily for both sides now that the specifications are up for review.

If, therefore, Westinghouse desires a corrected distillation range we can very easily continue to give it to them. However, we would like to revise the range upward. According to our calculations the stem and barometric correction at these temperatures runs more than the 15°C. allowed between our uncorrected temperatures and Westinghouse's corrected specification. Our suggested specification for the corrected distillation range are as follows:

10% point between 367-372°C.
50% point between 372-379°C.
90% point between 379-392°C.

This property of the Arcelor will remain the same as before, but it is merely a matter of getting the product in the middle of the specification rather than running consistently at the upper limit as at present on the 10% point.

I believe Westinghouse can see our point and will agree to a change. Either suggestion will be acceptable. Any assistance you can give to getting the specifications right on the distillation range will be greatly appreciated by the Operating Department.

We would like to have several copies of these specifications here at Anniston when they are approved.

A. M. Ellenburg

AME:rsj

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