Anniston, Alabama

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R. L. Jenkins - St. Louis
H. V. Moss
E. E. Hardy
This Copy For → T. H. Wheelock - St. Louis
H. L. Hubbard - St. Louis
D. B. Hosmer - Monsanto, Ill.
C. Barbre - Monsanto, Ill.
T. W. Dalton - Monsanto, Ill.

Mr. S. M. Kulifay

Monsanto, Illinois

Yours to Wheelock - 2/29/52

Transformer Inerteen PPO
Electrical Properties Specifications

This matter of making specifications requires a history of the product over a reasonable period, unless you can get a customer who is willing to accept changes. I agree as you do that the electrical specifications should be up to the minimum which a comparable product such as Pyranol 1467 will meet. Any increase in resistivity over the 100 x 10^9 ohm cm now used for Pyranol 1467 would reflect an improvement in the product.

We have no data on the technique required to bring low resistivity Inerteen PPO into specifications. Attapulgus earth treatment would no doubt do the job since 99.8 % of the fluid is Pyranol 1488 which has been successful treated in the past with earth.

The best insurance against low resistivity values is to be sure the Pyranol 1488 is of good grade by test before adding the PPO which should pass certain specifications for purity.

In the past we have made some tests on the effect of adding PPO to Pyranol 1488. The PPO was as received from Shell.

Sample	Resistivity at 100°C
Pyranol 1488	1900 x 10^9 ohm-cm
Pyranol 1488 plus 0.1% PPO	1800 x 10^9 ohm-cm
Pyranol 1488 plus 0.2% PPO	1400 x 10^9 ohm-cm
Pyranol 1488 plus 0.4% PPO	550 x 10^9 ohm-cm

A drop in resistivity is noticed here. You probably have similar data on the lots you have made which will give you a good idea as to the resistivity needed in Pyranol 1488 to insure a good Inerteen PPO.

A. M. Ellenburg

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