MITSUBISHI MONSANTO CHEMICAL COMPANY

FROM LOCATION : Tokyo

DATE : June 13, 1967

SUBJECT : **AROCLOR AND INERTEEN SAMPLES**

REFERENCE :

cc: Messrs.
J. Cresce-St. Louis
D. Danna- "
W. T. Dickens- "
J. R. Durland-Tokyo
D. T. Mowry-MJL
T. Nakata-Tokyo
H. Shiromizu- "

TO : Mr. G. R. Buchanan
St. Louis, Mo.

Many thanks for your sending us Aroclor and Inerteen PPO which have been urgently needed for our market survey.

The previous samples received in the latter part of March were tested by Mitsubishi Electric Co. and the following results were obtained:

1) Aroclor

	Aroclor 1242	Aroclor 1254
Volume Resistivity (50°C, Ω-cm)	8.1×10^{10}	4.6×10^{12}

2) Inerteen PPO

Items	Lot Number		
	AH-33(1)	AH-33(2)	AE-4
Water (PPM)	23.8	-	-
Specific Gravity (15°C)	1.557	-	-
	Colorless	Colorless	Light-yellow
Tan δ (%) (50°C, 50/60C/S)	> 120	70.6	60.6
Volume Resistivity (50°C, Ω-cm)	$< 1 \times 10^{10}$ (80°C)	4.1×10^{10}	3.7×10^{10}
Dielectric Constant (50°C, 50/60C/S)	-	5.29	5.56
Break Down Voltage (2.5m/m, KV)	56.8	-	-

Notes:
1) "___" means no measurements were made.

2) a considerable amount of colloidal precipitates were found in all samples.
3) All customers require VR value of more than 1×10^{13} (50°C) order.
The above data were obtained by using the apparatus and procedures as set forth in JIS(Japanese Industrial Standard). An outline of the test methods on major items will soon be sent for your reference.

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We suspect that differences in testing method, ASTM vs. JIS might be one of the most important elements which should be clarified for us to know where problem lies regarding the specifications of these products.

Accordingly, we would greatly appreciate it, if you could send us a related ASTM testing procedure for our study.

The samples which showed rather poor results here will be sent back by air parcel post for your re-examination.

If you could inform us about the results of your check-up and any counter-measure as to deteriolation of samples, it would be much appreciated.

Thank you again for your cooperation.

Sincerely,

for S. Setoh

S. Matsuno
Director of Planning

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