R 28 (REV. 1/58)

PROGRESS REPORT

ORGANIC CHEMICALS DIVISION

ST. LOUIS RESEARCH DEPT.

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TITLE AROCLOR PROCESS STUDIES

PROBLEM

1. To investigate the effect of air containing chlorine on the quality of the end product.
2. To investigate the necessity of the aeration step and to determine the required duration of this operation.

SUMMARY

1. Samples of Aroclor 1242 were prepared by an identical procedure, but instead of cylinder chlorine, air-chlorine mixtures (50:50, 20:80, and 10:90) were used. As expected, the material obtained showed no difference as far as yield, appearance, boiling range, and specific gravity is concerned. However, it was noted that the chlorine efficiency decreases the higher the percentage of air in chlorine.

   A final conclusion and the evaluation of these experiments will be made as soon as the samples are tested on stability chloride values.

2. Crude Aroclor 1242, received as a plant sample, was blown with different known amounts of air at the same temperature. The blown samples were processed following a standard procedure. The resulting Aroclor samples are to be tested for stability chloride values before any conclusion from this series of experiments can be made.

FUTURE PLANS:

To investigate the influence of the temperature during the chlorination step and the rate of chlorination on the quality of the end product.

H. Merten

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NO DETAILS

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