R 28 (REV. 1/57)

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.
3. To study the influence of different chlorination temperatures on the quality of the end product.

SUMMARY

1. It was found that the use of air containing chlorine (up to 50%) has no significant deleterious effect on the quality of the end product, Aroclor 1242.

2. From the results of the stability chloride values (Munch test), it can be concluded that the operation conditions in the aeration step effect the final product. Attempts are being made to establish optimum temperature and duration (blowing rate) of this operation.

3. Aroclor 1242 with acceptable stability chloride values (Munch test) has been prepared at chlorination temperatures between 100 and 140°C. At chlorination temperatures between 120 and 140°C., colorless material was obtained whereas reaction temperatures between 100 and 110°C. gave greenish-yellow colored Aroclor.

The study of the chlorination temperature range is being continued.

FUTURE PLANS

To study different chlorination rates and the effect on the quality of the end product.

H. Merten

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