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RESEARCH LABORATORY

Swann Research Incorporated

Anniston, Alabama.

REVIEW OF AROCLOR SITUATION FROM STAND-POINT OF USES.

By
H. J. Krase

December 31, 1930.

I N D E X

Aroclors — Review of Aroclor Situation from Stand-point of Uses.

Eight copies were made of this report and distributed as follows:—

No. 1 — Theodore Swann
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No. 4 — F. A. Lidbury
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Classification of Uses of the Aroclors

The classification employed in other reports has been adopted. They are as follows:—

Varnish

Lacquers

Waterproof Adhesives

Impregnation:— Fireproofing

Fibre and Transparent Paper

Weather, Moisture and Waterproofing.

Printing Inks

Liquid Dielectrics

Solid Dielectrics

Other Electrical Insulation Problems

Lubricants

Chewing Gum Base

Rubber Compounding

Protective Coatings

Can Sealing

Sealing Wax

Plastics and Plasticizers

Aroclors for Heat Transfer

A considerable number of contacts have been made for which the use is unknown.

The purpose of this review is to examine the outstanding uses to which the Aroclors have been put or are being proposed. In a great many cases little trustworthy information has been obtained from

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the users themselves. A few instances, only, are outstanding exceptions.

Where a sufficiently large number of users have been interested in a single problem or application and there seemed to be justifiable optimism regarding the application of Aroclors, the Research Laboratory has undertaken work on these problems. In this way information has been obtained which should further the commercial introduction of the Aroclors into these new fields. This program will be continued in the future.

In compiling this report the contents of the earlier reports on this subject have been completely revised and combined in this one report and the information brought up to date as of December 31, 1930.

VARNISH

1. What we know about Aroclor in varnish.

(a) H. A. Gardner Paint & Varnish Institute, Wash., D. C.

A report of G's work on diphenyl resin appeared in Circular No. 364 dated April, 1930 of the American Paint & Varnish Mfg's Association. This report points out: 1. Varnishes may be made having a drying time of 4 hours. 2. Some of the varnishes are of very light color. 3. Bleaching action on tung oil noted. 4. Some have been fairly durable in accelerated test and resistant to water. 5. Information as to durability out of doors lacking but will be made this summer. Keeping qualities also lacking. 6. Coatings are alkali resistant and to some extent flame resistant. 7. The harder varities should produce spirit resistant finishes.

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SHERWIN WILLIAMS R.L.J. June 18, 1930.

They found that Aroclor 1254 gave a very flexible film and an "extremely light varnish" lighter than the S-W varnish of the same class.

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