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NEWARK PLANT
PIGMENT COLOR RESEARCH REPORT

RT-571-D, PLANT DEVELOPMENT

5-NITRO-2-AMINO-ANISOLE → "LITHOSOL" ACID BON, MANGANESE

Period Covered: October 1947 - August 1948.

FILE:

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Final Report

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5-NITRO-2-AMINO-ANISOLE -> "LITHOSOL" ACID BON, MANGANESE

Period Covered: October 1947 to August 1948

Charge: A-II-C-180

SUBMITTED BY: A. D. MILLS

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INTRODUCTION

RT-571-D (5-nitro-2-amino-anisole $\rightarrow$ BOM, manganese) was developed in the laboratory to aid in the reduction of the reactivity of RT-588-D (K-2292 or RT-551-D (A)) by blending 10 parts of RT-571-D with 90 parts of RT-588-D. A semi-works development was made and a satisfactory formula derived. (Lot 9421). A plant trial was definitely warranted especially as orders had been filled with semi-works material and more were outstanding.

SUMMARY AND CONCLUSIONS

- (1) RT-571-D was set up on the (C) process which has a 5 minute development at 158°F. This corresponds to the semi-works lot 9421.
- (2) RT-571-D (C), SD 55275 was set up as the current standard.
- (3) RT-571-D is not standardized as a finished product but is made into a 10/90 blend with the RT-588-D standard and evaluated for color and reactivity in alkyl.
- (4) The plant assumed supervision of manufacture of RT-571-D (C) on August 5, 1948.

GENERAL DISCUSSION

The plant lots were made on the RT-571-D, lot 9324, process. The first was satisfactory but the second was a "flop" batch at the end of the development. (A "flop" batch is one in which the slurry has turned to a light red from a very dark, bluish material due to over development).

Following this latter batch, the problem was temporarily returned to the laboratory and semi-works for a brief study on the temperature of development. Reducing the development temperature to 158°F for 5 minutes gave satisfactory results in the semi-works (lot 9421) and 7 additional successful runs were made on this procedure in the plant. The last three were followed only nominally by research; the plant assuming responsibility for testing and blending these lots.

EXPERIMENTAL DETAILS

The lots were evaluated by research in blends with RT-588-D and the results are recorded in N.B. 1264, exp. 30, 57 and 62.

REFERENCES

- KN-49-8 Laboratory Development of RT-571-D
- KN-49-9 Semi-works Development of RT-571-D
- DSN-49-10 " " " " "