

Numerical File

E. I. DU PONT DE NEMOURS & COMPANY
PIGMENTS DEPARTMENT
256 VANDERPOOL STREET
NEWARK, NEW JERSEY

LIBRARY COPY

NEWARK PLANT
PIGMENT COLOR RESEARCH REPORT

Final Report

RT-359-D - SEMI-WORKS & PLANT PRODUCTION

Period Covered:

JUNE 1943 to JULY 1945

FILE:

222.23

DATE:

11/28/45

222.23
KN-45-83

Serial No. KN-45-83

Copy No. 1

Copy to:

- #1 - Numerical File
- 2 - Research Office (222.23)
- 3 - Library File (222.23)
- 4 - #10 Building File
- 5 - Imperial Chemical Industries, Ltd. } *Not sent*
- 6 - " " " " } *Copies destroyed*
- 7 - " " " " } *Dec 4, 1946*
- 8 - D. H. Dawson, Newark - *Rec'd 12-14-45*

NEWARK PLANT

PIGMENT COLOR RESEARCH REPORT

Final Report

RT-359-D - SEMI-WORKS & PLANT PRODUCTION

June 1943 to July 1945

SUBMITTED BY: V. Chalupski

DATE SUBMITTED: 11/20/45

APPROVED BY: V. Chalupski

V. Chalupski Nov. 28, 1945

DATE ISSUED: 11/28/45

INTRODUCTION:

Over this three year period, production was carried out in the semi-works for the most part, twenty-three batches totalling 2600 lbs. being made there. Three plant batches (800 lbs.) were also made. All of this pigment was blended and sold; in June 1945 it was decided to discontinue manufacture of this pigment because it has always been an unprofitable item, and a cost analysis indicated that even if all manufacture could be carried out in the plant it would remain so.

SUMMARY AND CONCLUSIONS:

The 23 semi-works batches made varied in size from 72 lbs. to 135 lbs. each; the batch size was fitted to the equipment available at the time of manufacture. The usual variables were used to produce light or dark masstone pigment as needed. A number of batches were made from dye manufactured in the Newark plant because Orchem could not supply regular dye. Quality of these batches of pigment were normal.

During this period, three plant batches of dye were made (para-chlor-aniline-meta-sulfonic acid $\rightarrow$ beta-oxy-naphthoic acid). These were struck on the K-7991 formula at 1.1 mol batch size (484 lbs. dye). Quality and yields were satisfactory. The dye was consumed in RT-359-D and RT-499-D.

Three plant batches, 270 lbs. each, were made; two of them from dye coupled at Newark and the other from purchased dye. All showed the usual blue tint which has been prevalent in the plant (see reports KN-39-288 and KN-42-283). All of the semi-works and plant material made was blended to pigment which was standard except for a tendency toward slightly blue tints.

RT-359-D was officially obsoleted August 2, 1945 because of low sales volume and high cost.

EXPERIMENTAL DETAILS:

See Development Section Data Book, DSN-45-25.