

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

LIBRARY COPY

NEWARK PLANT
PIGMENT COLOR RESEARCH REPORT

RL-211-D: GOAL YIELD STUDY (K-9954).

Period Covered: June, 1946

FILE:

DATE: 7/16/46

225.41

154-46:41

Serial No. KN-46-41

Copy No. 1

Copy to:

- #1 - Numerical File
- 2 - Research Office (222.41)
- 3 - Library File (222.41)
- 4 - #10 Building File
- 5 - #6 " "
- 6 - Imperial Chemical Industries, Ltd.
- 7 - " " " "
- 8 - " " " "
- 9 - W. F. Spengeman

NEWARK PLANT

PIGMENT COLOR RESEARCH REPORT

Progress
Final Report

Title: RL-211-B: GOAL YIELD STUDY (K-9954).

Period Covered: June, 1946

SUBMITTED BY: M. G. Taber

DATE SUBMITTED: 7/9/46

APPROVED BY: J. O. Morrison

DATE ISSUED : 7/16/46

7/13/46

N40002.01

DUP050150461

INTRODUCTION

The plant has recently been obtaining yields on RL-211-D which averaged 2-3% above the "goal" figure for this color. Investigation showed that no goal yield had even been determined for K-9954 itself. The yield currently used as goal was one determined on a similar formula which used precipitated zinc oxide in place of the Kadox.

SUMMARY AND CONCLUSIONS

The goal yield for K-9954 obtained is as follows:

1099% anhydrous
5% H₂O (analysis of prospective Standard Lot).
115% "as is".

This yield is nearly identical with the one currently being used - 1098% anhydrous.

DISCUSSION OF RESULTS

For determination of the goal yield four laboratory strikes (0.3 x formula size) were run, exactly alike except that two lots of dye were used - a plant pulp and laboratory dried material. The dye solutions were analyzed and used accordingly. Individual yields varied less than 0.4% from the average value.

EXPERIMENTAL DETAILS

	Yield		Yield		wt. of
	Yield		Anhydrous	Dye Lot	Anal. dye
	"as is"	H ₂ O			
1225-1A	339.3	2.6	330.5	NB 999-58	141
-1B	339.4	3.2	328.5	6004	141
-1C	339.4	2.8	329.9	NB 999-58	141
-1D	339.0	2.8	329.5	6004	141
Lot 48055 - Currently Prospective Standard		5.0			
RL-211-D, SD 47996		4.0			

REFERENCES

1225-1