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NEWARK PLANT
PIGMENT COLOR RESEARCH REPORT

SEMI-WORKS DEVELOPMENT OF K-2413
5-Nitro-2-Amino-Anisole → N-ASD

Period Covered: November 1946 to May 1947.

FILE:

DATE: 1/3/50

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FINAL REPORT

TITLE: SEMI-WORKS DEVELOPMENT OF K-2413
5-Nitro-2-Amino-Anisole → N-ASD

PERIOD COVERED: November 1946 to May 1947.

CHARGE: A-IC-40

SUBMITTED BY: A. D. MILLS

DATE SUBMITTED: 1/27/49

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INTRODUCTION

During the course of the study on the reactivity of RT-551-D (5 nitro-2-amino-anisole -> N-ASD) several variables tried resulted in a process which would save about 20 cents per pound on ingredient costs. This economy formula was coded K-2413 and given a semi-works trial.

SUMMARY AND CONCLUSIONS

Two identical semi-works runs were made and found to be close tinctorially although lighter than RT-551-D. However, some difficulty was encountered in variations in pH of coupling which would require further study. The project was abandoned temporarily as all the blending study with RT-571-D had been carried out with RT-551-D and the tinctorial property established in the trade.

GENERAL DISCUSSION

The first batch (lot 8999) coupled with a much higher pH than was desired while in the second batch (lot 9000) the pH of coupling was on the low side. Due to the elimination of the sodium bicarbonate and consequent buffering action the pH is very sensitive.

Generally speaking, higher yields were realized on the K-2413 in addition to the savings. Also a slight improvement in lightfastness was noticed.

This report is in reality a progress report as more work would have to be done before plant production could be scheduled on this code.

EXPERIMENTAL DETAILS

<u>N.B.</u>	<u>Exp.</u>	
1197	47	Evaluation of lot 8999 + lot 9000
1245	12	Blend of K-2413 and K-2384 (K-2433)
1245	15	Preparation of replacement for K-2433
1245	17	Blend of lots 8999 and 9000
1245	47	Blend of K-2413 and K-2384

REFERENCES

KN-49-11 Laboratory Development of K-2413
KN-49-6 Reactivity of RT-551-D
DSN-49-12 Semi-Works Development of K-2413