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KREBS PIGMENTS DEPARTMENT
256 VANDERPOOL STREET
NEWARK, NEW JERSEY

210.2

NEWARK PLANT
PIGMENT COLOR RESEARCH REPORT

IRON OXIDE PULP - K-2383

Period Covered: July 17 - August 5, 1946

FILE: *210.2*

DATE: 9/18/46

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NEWARK PLANT

PIGMENT COLOR RESEARCH REPORT

Final Report

Title: IRON OXIDE PULP K-2383

Period Covered: July 17 - August 5, 1946.

SUBMITTED BY: *F. K. Schnee*
F. K. Schnee & *A. A. Brissolara* *astripp* DATE SUBMITTED: 9/12/46
APPROVED BY: *A. Siegel* DATE ISSUED: 9/18/46

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INTRODUCTION

At the request of Sales, F-4-P was investigated for possible use in the paper coating and beater dyeing fields. Homogenization and treatment with dispersing agent were tried. A formula, K-2383, for the homogenization of F-4-P was written for costing purposes.

SUMMARY & CONCLUSIONS

1. F-4-P is unsuitable for paper coating and beater dyeing use because of the physical nature of the pulp, viz. nonuniformity, poor dispersibility, and water separation.
2. Homogenization of F-4-P by high speed mixing and adjustment of its solids content from $\pm 40\%$ to $\pm 22\%$ produces a uniform pulp with superior dispersion properties. Observation of laboratory pulps indicated slight separation of water.
3. Homogenization of F-4-P with a dispersing agent, e.g. Blancol, was apparently without effect on the properties of the pulp.
4. Homogenization and standardization of F-4-P at 22% solids resulted in an increase in total mill costs of \$6.34/100 lbs. (dry basis) based on the use of the currently available 55 gal. Lenart mixer; and an increase of \$2.07/100 lbs. (dry basis) on the basis of a 550 gal. Lenart mixer which the plant has on order.
5. A water dispersible dry pigment prepared by treating F-4-P with Blancol in a 50/50 ratio was of no interest.

REFERENCES

Notebook 1017 - Expts. 57 and 58

K-2383 formula

J. Wright's letter of 9/11/46 to A. A. Brisselara.

GLOSSARY

Blancol is the condensation product of formaldehyde and naphthalene sulfonic acid and is purchased from General Dyestuff Corp.