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KREBS PIGMENTS DEPARTMENT
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NEWARK, NEW JERSEY

NEWARK PLANT
PIGMENT COLOR RESEARCH REPORT

"WATCHUNG" RED, ART-672-D, FOR INTERCHEMICAL (RBH)
LABORATORY, SEMI WORKS, AND PLANT DEVELOPMENT

Period Covered

MARCH, 1951 - APRIL, 1952

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NEWARK PLANT

CHEMICAL DIVISION - COLORS

FINAL REPORT

TITLE: "WATCHUNG" RED, ART-672-D, FOR INTERCHEMICAL (RBH)
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PERIOD COVERED: MARCH, 1951 - APRIL, 1952

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INTRODUCTION

RT-672-D is a 2B Acid-BON/Ca, Sr pigment similar to RT-428-D, except that the rosin, para soap, and Octanol have been omitted. It is a special for Interchemical (RBH Dispersions) only. Laboratory material was supplied to the customer for the initial sample orders. Additional small orders were filled from semi-works material, and then from a mix of two specially made plant batches. Customer orders have been infrequent and for only small quantities. At the present time Sales believes there will be no further orders for the pigment. From a tinctorial and cost standpoint, it would not be a practical addition to the "Watchung" line.

SUMMARY AND DISCUSSION

RT-672-D is a "Watchung" red similar to RT-428-D, except that the rosin, para soap, and Octanol have been omitted. It was set up as a special for Interchemical (RBH Dispersions) at their request for a "Watchung" red containing no agents.

The first one pound sample was prepared in the laboratory (NB 1390, Expt. 11). By rubouts it was s dark, vvs blue versus RT-428-D. A second one pound sample was subsequently prepared for the customer (NB 1390, Expt. 22). By rubouts, it was s light, vs weak, tr blue versus RT-428-D. This lack of duplicability was also evident in the plant trials, and may be attributed to the loss of the stabilizing influence of the rosin and para soap.

To fill a 30 pound order, one 50 lb. batch (lot 1435) was made in the #10 Building semi-works. Rubout readings were as follows:

versus RT-428-D SD 91195 light; s strong, s dull
versus 1390-22 s dark; strong, s dull

Lot 1435 was dry blended with 5% blanc fixe to approximate the strength of the laboratory sample, 1390-22, and shipped to the customer as lot 1441.

When an additional order for 52 lbs. was received, it was decided to make a full size plant batch as a preliminary move toward possible standardization. A process was written up and the problem turned over to Quality Control. The process called for the addition of 16% blanc fixe, in place of the 12.6% normally used in RT-428-D, to offset the higher cost due to the lower yield caused by the omission of the treating agents. The first plant batch, lot 37606, tested considerably lighter in masstone than either RT-428-D or lot 1441. Rubout readings were:

versus RT-428-D, SD 91195 v light; 111, v dull
versus RT-672-D, lot 1441 v light; 106, v dull

In order to obtain a better indication of plant performance, another

batch was made, which was similar to the first. A 1500 lb. mix, lot 697, of the two batches was prepared, from which Interchemical's order was filled. The mix compared with RT-428-D and lot 1441 as follows:

versus RT-428-D, SD 91195 v light; 110, yellow, dull
versus RT-672-D, lot 1441 v light; 104, yellow

When further orders failed to materialize, most of lot 697 was consumed in RT-428-D mixes. About 6 lbs. of lot 697 has been retained by the plant as a reference standard. The Chemical Division is retaining 1 lb. of lot 1441 under the serial number 3456. The sample is in the K-number files.

The New York Sales office advises that it is not likely that there will be any more orders for RT-672-D. They do not foresee any continuing demand for this code. Since all of lot 697 has been disposed of, the remainder of lot 1435 (9 lbs.) has been blended with blanc fixe to approximate lot 1441 and retained for possible future nuisance orders from Interchemical.

The following table summarizes the shipments of RT-672-D to Interchemical Corporation:

<u>Am't Ordered</u>	<u>Lot No.</u>	<u>Source</u>	<u>Date Shipped</u>
1 lb.	1390-11	Lab.	3/27/51
1 lb.	1390-22	Lab.	5/18/51
30 lbs.	1441	S.W.	11/15/51
3 lbs.	1441	S.W.	1/25/52
11 lbs.	697	Plant	5/28/52
4 lbs.	697	Plant	9/16/52
6 lbs.	697	Plant	11/25/52
5 lbs.	1441	S.W.	1/4/53

REFERENCES

Letter: A.A.Brizzolara to F.E.Bolton, 3/21/51
 " to " 3/27/51
 " to D.B.Killian 4/25/51
 " to F.E.Bolton 5/18/51
 " to D.B.Killian 11/15/51
 " to " 3/31/52
 R.A.Hageman to " 4/28/52
 " to F.E.Bolton 6/2/52
 D.B.Killian to J.N.Tully 1/29/53
 A.A.Brizzolara to D.B.Killian 2/3/53

NB 1390, Expts. 11,22 and S.W. lots 1435,1441

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