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NEWARK PLANT
PIGMENT COLOR RESEARCH REPORT

ALIZARINE LAKE

RT-332-D, TURKEY RED OIL SUBSTITUTES

Period Covered May 1951 - February 1952

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NEWARK PLANT

PIGMENT COLOR RESEARCH REPORT

Title: ALIZARINE LAKE
RT-332-D, TURKEY RED OIL SUBSTITUTES

Period Covered: May 1951 - February 1952

Charge: 1101-11-52

SUBMITTED BY: G. GRIMM

G. Grimm
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DATE SUBMITTED: 4/10/52

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INTRODUCTION

Recent curtailment of para soap and turkey red oil supply led to investigation of substitute materials. In the case of RT-332-D a number of substitutes have been tried on a pound for pound basis in one experiment.

SUMMARY AND CONCLUSIONS

Substitution of the following materials for turkey red oil (N-75) on a pound for pound basis produced unsatisfactory RT-332-D in the laboratory:

Petronate (N-490)
Potassium Laurate (N-358)
Distoline (N-641) saponified with caustic
Textile Finishing oil, 75% (Drew)
Rosin (N-239) saponified with caustic)

Rebut results are as follows:

<u>Read vs TRO Control</u>	<u>Yield *</u>	<u>MT</u>	<u>DD</u>	<u>Str.</u>	<u>Tint</u>
No agent	73%	bl, dull	bl, dull	str(+20%)	blue
Petronate	86%	bl, dk	blue	s wk	s yell, s dull
Potassium Laurate	79%	yell, dull	int	str(+20%)	yell, int.
Distoline	87%	bl, dk	bl, dull	vs str	s blue
Textile Finishing Oil	75%	dull	bl, dull	str(+10%)	blue
Rosin	88%	bl, dk	bl, dull	s wk	blue

*based on control at 100%.

It is possible that variation in amount of agent will produce powerful control variables by substituting other agents for turkey red oil, but at a yield sacrifice.

EXPERIMENTAL DETAILS

Refer to Expt. 16 Notebook 554.