TECHNICAL REPORT: 2530/95

ABSTRACT:

PSX 700 & Amershield were tested for Electrical Resistance using Ransburg 70408. PSX 700 was thinned with Amercoat 911 thinner & Sec. Butyl Alcohol and Amershield was thinned with Amercoat 65.

CONCLUSION/RECOMMENDATION:

PSX 700 should be thinned to improve electrostatic application. See table for detailed results

RESULTS:

COATING:	PSX 700	PSX 700	Amershield
Thinner:	Amercoat 911	Sec.butyl Alcohol	Amercoat 65
None	2.25 megohms		>10 megohms
1/2 pt	1.25 megohms	1.0 megohms	>10 no change
1 pts.	>.75 megohms	<.75 megohms	< 9 megohms
1 1/2 pts.	.5 megohms	.5 megohms	NT
2 pts	>.4 megohms	<.4 megohms	9-8 megohms

Paint resistance for use No. 2 process metal bell or disk should range between .05 and 1.0 megohms.
For hand guns the range should be between .1 and 1.0 megohms.

MEK, MIBK, MNAK, Butyl Acetate and Amercoat 911 can improve electrostatic application properties for Amershield.

METHODS/EXPERIMENTAL:

Test & Method: Ransburg Electrical Resistance, Method 0404

Thinners: Amercoat 65, 911 and Sec. butyl Alcohol

Coatings: PSX 700 Solar Gray L505005 cure M506119
Amershield White L503571 cure na