

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003
 DateRun: 10/14/2003
 Experimenters: Dave Hout
 ClientType: Lab
 ProjectNumber: Project #1
 Substrates: Brass
 PartType: Coupon
 Contaminants: Buffing/Polishing Compounds
 Cleaning Methods: Immersion/Soak
 Analytical Methods: Gravimetric

Purpose: Laboratory evaluations of alternative cleaning products

Experimental Procedure: Basic cleaning performance testing was conducted using ASTM G122 as the bases for cleaning. Two products were used at full strength at room temperature and four were heated to 130 F on a hot plate. Eighteen preweighed coupons were coated with Matchless Metal Polishing C2-230 BC and allowed to dry for a half an hour and reweighed. Three coupons were cleaned in each solution for 5 minutes using stir-bar-agitation, rinsed in a tap water bath for 15 seconds at 120 F and dried using air blow off for 30 seconds at 68 F. Coupons were allowed to dry for a half an hour and then reweighed a final time. Efficiencies were calculated.

Results:

Summary:

Substrates:		Brass			
Contaminants:		Buffing/Polishing Compounds			
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Magnaflux	Daraclean 235	5	95.13	<input checked="" type="checkbox"/>	
Today & Beyond	Beyond 2003	5	93.89	<input checked="" type="checkbox"/>	
Transene Company, Inc.	D Greeze 1000	100	84.09	<input type="checkbox"/>	
Hubbard Hall Inc	Aquasonic 201	5	116.94	<input type="checkbox"/>	
Man Gill Chemical Company	Gillite 0650 Cl	5	62.30	<input type="checkbox"/>	
Man Gill Chemical Company	Gillite 1156	100	92.20	<input checked="" type="checkbox"/>	

Conclusion: Three out of the six cleaners were successful at removing the contaminant at an efficiency rate of over 90%.