

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1996  
DateRun: 01/12/1996  
Experimenters: Jay Jankauskas  
ClientType: Silversmith  
ProjectNumber: Project #1  
Substrates: Brass  
PartType: Coupon  
Contaminants: None  
Cleaning Methods: Immersion/Soak  
Analytical Methods: Visual

Purpose: Perform a second brass compatibility test

Experimental Procedure: The purpose of this trial is to perform a brass compatibility test with the WR Grace Daraclean 211, Calgon Geo-Guard #2215 and the U.S. Polychem Polyspray Jet #790. 2"x2" Brass Coupons were immersed for up to two hours from temperatures ranging from ambient to 170 F. The coupons were then rinsed and hung up to air dry. After drying, the coupons were visually inspected for any etching or discolorization.

Results: A 20% solution of Daraclean 211 and Geo-Guard 2215 showed no etching or discolorization when immersed for 2 hours at 170 F. The Polyspray Jet #790 showed etching at concentrations of 4% and higher when immersed for 30 min at ambient temperature. A 2% solution of the Polyspray Jet showed no etching when immersed for 30 min at 160 F.

Summary:

<b>Substrates:</b>	Brass				
<b>Contaminants:</b>	None				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Magnaflux	Daraclean 211	20		<input checked="" type="checkbox"/>	
Calgon Corporation	Geo Guard 2215	20		<input checked="" type="checkbox"/>	
US Polychem Corporation	Polyspray Jet 790 XS	2		<input checked="" type="checkbox"/>	

Conclusion: The Daraclean 211 and Geo-Guard 2215 will be used in future pressure spray tests with brass and silver parts for Silversmith. The Polyspray Jet will not be considered for any non-ferrous metal testing in the future.