

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003  
 DateRun: 12/03/2003  
 Experimenters: Dave Hout  
 ClientType: Lab  
 ProjectNumber: Project #1  
 Substrates: Stainless Steel  
 PartType: Coupon  
 Contaminants: Greases  
 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. Seven products were heated to 130 F on a hot plate and one product was used at full strength. Twenty-four preweighed coupons were coated with Grease - Daubert Chemical Co. Tectyl 891 Class I Cosmoline 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:

<b>Substrates:</b>	Stainless Steel				
<b>Contaminants:</b>	Greases				
<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
BetzDearborne Laboratories Inc	Custom Clean N CC 2278	100	75.07	<input type="checkbox"/>	
Buckeye International	Work Out	5	37.22	<input type="checkbox"/>	
Calgon Corporation	Geo Guard 3015	5	-51.91	<input type="checkbox"/>	
Delta Omega Technologies Ltd	Attar D(R3)	5	40.52	<input type="checkbox"/>	
Hurri Kleen Corportion	HurriSafe - Hot Immersion Degreaser	5	17.77	<input type="checkbox"/>	
Heatbath Corporation	MultiKleen LX 1573	5	49.27	<input type="checkbox"/>	
International Products Corporation	Zymit	5	-81.70	<input type="checkbox"/>	
Magnaflux	Daraclean 235	5	8.92	<input type="checkbox"/>	

Conclusion: None of the products are effective at removing the contaminants.