

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003  
 DateRun: 10/29/2003  
 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. One product was used at full strength at room temperature and seven products were heated to 130 F on a hot plate. Twenty-four preweighed coupons were coated with Grease Dauberyt Chemical co Tectyle 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>
Man Gill Chemical Company	Gillite 1156	100	3.77	<input type="checkbox"/>	
Man Gill Chemical Company	Gillite 0650 Cl	5	28.88	<input type="checkbox"/>	
AW Chesterton	217 Pressure wash	5	0.74	<input type="checkbox"/>	
Alconox Inc	Liquinox	5	19.56	<input type="checkbox"/>	
Bio Chem Systems	Bio T Parts Washer NR	5	92.39	<input checked="" type="checkbox"/>	
Buckeye International	XL 100 Cleaner & Degreaser	5	91.42	<input checked="" type="checkbox"/>	
Today & Beyond	Beyond 2003	5	41.33	<input type="checkbox"/>	
US Polychem Corporation	Polychem A 2000 P	5	18.65	<input type="checkbox"/>	

Conclusion: Only two products were effective at an efficiency rate of over 90%.