

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003  
DateRun: 12/12/2003  
Experimenters: Dave Hout  
ClientType: Lab  
ProjectNumber: Project #1  
Substrates: Stainless Steel  
PartType: Coupon  
Contaminants: Lubricating/Lapping Oils  
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. Four products were heated to 130 F on a hot plate and four others were used at full strength. Twenty-four preweighed coupons were coated with Lubricant - LPS Magnum Teflon 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. Effeciencies were calculated.

Results:

Summary:

<b>Substrates:</b>		Stainless Steel			
<b>Contaminants:</b>		Lubricating/Lapping Oils			
<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
EcoLink	Positron	100	99.21	<input checked="" type="checkbox"/>	
Man Gill Chemical Company	Gillite 1156	100	99.41	<input checked="" type="checkbox"/>	
Nensco	DT 600 Press Wash	100	98.66	<input checked="" type="checkbox"/>	
Nensco	USA Wash	100	99.40	<input checked="" type="checkbox"/>	
Hurri Kleen Corportion	HurriSafe - Hot Immersion Degreaser	5	98.49	<input checked="" type="checkbox"/>	
Brulin Corporation	Nature Sol 100	5	96.01	<input checked="" type="checkbox"/>	
Hubbard Hall Inc	Ram Charger	5	98.86	<input checked="" type="checkbox"/>	
Quaker Chemical	Formula 625 XL	5	99.16	<input checked="" type="checkbox"/>	

Conclusion: All products were effective at removing the lubricant at an efficiency rate of 99%