

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003
 DateRun: 12/11/2003
 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. Efficiencies were calculated.

Results:

Summary:

Substrates:	Stainless Steel				
Contaminants:	Lubricating/Lapping Oils				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
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%