

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 12/02/2003

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. Six products were heated to 130 F on a hot plate and two products 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:
Chemtronics Inc	Super Bio Wash	100	89.53	<input checked="" type="checkbox"/>	
BetzDearborne Laboratories Inc	Custom Clean N CC 2278	100	93.33	<input checked="" type="checkbox"/>	
Calgon Corporation	Geo Guard 3015	5	84.58	<input type="checkbox"/>	
Buckeye International	Work Out	5	97.34	<input checked="" type="checkbox"/>	
Delta Omega Technologies Ltd	Attar D(R3)	5	94.11	<input checked="" type="checkbox"/>	
Equinox Products	Natural Solutions	5	97.15	<input checked="" type="checkbox"/>	
Chemkleen International Inc.	CT 1 Multipurpose Cleaner	5	95.43	<input checked="" type="checkbox"/>	
BCS Company	251 SR	5	96.58	<input checked="" type="checkbox"/>	

Conclusion: Seven out of eight products were effective at an efficiency rate of over 93%.