

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003
 DateRun: 12/04/2003
 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 - CRC Industries Multipurpose Super White Grease (647-41-96-4, 7620-77-1, 1314-13-2, 57885-77-3, 13463-67-7) 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:	Greases				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
BetzDearborne Laboratories Inc	Custom Clean N CC 2278	100	94.59	<input checked="" type="checkbox"/>	
Buckeye International	Work Out	5	99.35	<input checked="" type="checkbox"/>	
Calgon Corporation	Geo Guard 3015	5	5.11	<input type="checkbox"/>	
Delta Omega Technologies Ltd	Attar D(R3)	5	53.95	<input type="checkbox"/>	
Hurri Kleen Corportion	HurriSafe - Hot Immersion Degreaser	5	80.81	<input type="checkbox"/>	
Heatbath Corporation	MultiKleen LX 1573	5	98.72	<input checked="" type="checkbox"/>	
International Products Corporation	Zymit	5	8.08	<input type="checkbox"/>	
Magnaflux	Daraclean 235	5	29.91	<input type="checkbox"/>	

Conclusion: Three out of eight products were effective at an efficiency rate of over 94%