

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004
 DateRun: 03/12/2004
 Experimenters: Dave Hout
 ClientType: Lab
 ProjectNumber: Project #1
 Substrates: Stainless Steel
 PartType: Coupon
 Contaminants: Oil
 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 and seven products were heated to 130 F on a hot plate. Twenty-four preweighed coupons were coated with Oil-Benecyn B-5186 (64742-5, 9003-29-6, 3964-69-2, 63197-48-8) 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:	Oil				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Dow Chemical Company	XUS 40571 Development Solvent	100	94.62	<input checked="" type="checkbox"/>	
Calgon Corporation	Geo Guard 3015	5	90.70	<input checked="" type="checkbox"/>	
Watson Technical Associates	Watson Formula 9000	5	97.77	<input checked="" type="checkbox"/>	
SOQ Environmental Technology	Ecomate FN	5	94.77	<input checked="" type="checkbox"/>	
US Polychem Corporation	Polychem A 2000 P	5	96.10	<input checked="" type="checkbox"/>	
Buckeye International	XL 100 Cleaner & Degreaser	5	98.56	<input checked="" type="checkbox"/>	
Jet Lube Inc	Jet Lube 5000	5	97.82	<input checked="" type="checkbox"/>	
Quaker Chemical	Formula 625 XL	5	99.04	<input checked="" type="checkbox"/>	

Conclusion: All products were effective at removing the contaminant at an efficiency rate >90%