

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004
 DateRun: 03/29/2004
 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-Mineral Oil (5012-95-1) 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	102.00	<input checked="" type="checkbox"/>		
AW Chesterton	217 Pressure wash	5	80.32	<input type="checkbox"/>		
Jet Lube Inc	Jet Lube 5000	5	83.01	<input type="checkbox"/>		
Hubbard Hall Inc	Ram Charger	5	99.72	<input checked="" type="checkbox"/>		
Man Gill Chemical Company	Gillite 1156	5	97.57	<input checked="" type="checkbox"/>		
Nensco	DT 600 Press Wash	5	101.63	<input checked="" type="checkbox"/>		
Buckeye International	XL 100 Cleaner & Degreaser	5	100.69	<input checked="" type="checkbox"/>		

Conclusion: Six out of the eight products were effective at removing the contaminant at an efficiency rate >97%