

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004
 DateRun: 03/31/2004
 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 four 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:
Nensco	USA Wash	100	98.94	<input checked="" type="checkbox"/>	
Quaker Chemical	Formula 625 XL	5	98.19	<input checked="" type="checkbox"/>	
SOQ Environmental Technology	Ecomate FN	5	1.69	<input type="checkbox"/>	
Watson Technical Associates	Watson Formula 9000	5	71.98	<input type="checkbox"/>	

Conclusion: Three out of the five products were effective at removing the contaminant at an efficiency rate of over 98%