

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 09/26/2003

Experimenters: Jason Marshall, 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. Five products were used at full strength, heated to 120 F on a hot plate. Fifteen preweighed coupons were coated with Oil - Benign B-5186 (64742-52-5, 9003-29-6, 3964-69-2, 63197-48-8) and allowed to dry over the weekend 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: Bio T Foam Plus was sprayed onto one of the three coupons at room temperature and allowed to sit for 5 minutes. The cleaner was then wiped clean.

Summary:

Substrates:		Stainless Steel				
Contaminants:		Oil				
Company Name:		Product Name:	Conc.:	Efficiency:	Effective:	Observations:
AW Chesterton		278 Super Solv	100	95.81	<input checked="" type="checkbox"/>	
Bio Chem Systems		Bio T Foam Plus	100	36.13	<input type="checkbox"/>	
Invista S.a.r.l		Flexisolv DBE 3 ester	100	80.46	<input type="checkbox"/>	
Eastern Color and Chemical Company		Ecobrite Cleaner AK	100	35.30	<input type="checkbox"/>	
Gemtek Products		SC EZ Solv Safety Solvent	100	63.34	<input type="checkbox"/>	

Conclusion: AW Chesterton 278 Super Solv was the only effective cleaner at an efficiency rate of 95.81%.