

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%.