

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004

DateRun: 07/06/2004

Experimenters: Heidi Wilcox

ClientType: Lab

ProjectNumber: Project #1

Substrates: Aluminum

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.
Cleaning: 5 min. immersion cleaning at 96 F with stir-bar agitation.
NO Rinsing
Drying: 30 sec. Air blow off using hose
Contaminant:
OIL - Cargill Inc AP 60 canola cas# 120962-03-0
Substrate 2 " x 2" aluminum coupons

Results:

Summary:

Substrates:	Aluminum				
Contaminants:	Oil				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Petroferm Inc	Lenium CP (no longer available)	100	98.99	<input checked="" type="checkbox"/>	
Petroferm Inc	Lenium ES	100	103.04	<input type="checkbox"/>	
Invista S.a.r.l	Flexisolv DBE 6 ester	100	102.96	<input checked="" type="checkbox"/>	

Conclusion: ES & GS both cleaned over 102% so damage to the aluminum is to be considered. There was no visible damage to the coupon so prior contamination or film on the coupon may have been cleaned off with these cleaners.