

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004  
 DateRun: 07/05/2004  
 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:**

<b>Substrates:</b>	Aluminum				
<b>Contaminants:</b>	Oil				
<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
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.