CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 03/21/2002

Experimenters: Purav Dave

ClientType: Lab

ProjectNumber: Project #1

Substrates: Aluminum

PartType: Coupon

Contaminants: Cutting/Tapping Fluids

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 120 F with stir bar agitation. (all the organic cleaners were run at room temperature)

Oil - Winfield Brooks Alumtap (64742-53-6, 127-18-6, 111-63-7)

Results: Observations: The coupons cleaned with perfluorosolve PFS 1 had cleaner on them even after rinsing. This cleaner was used by spraying as there was not enough cleaner to immerse the coupons completely.

The cleaner Westech CT-4721 reacted with aluminum coupons violently and hence were removed after 30 sec.

Summary:

Substrates:	Aluminum				
Contaminants:	Cutting/Tapping Fluids				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Sysco Corporation	Fryer & Grill Cleaner	5	94.45	☑	
Ausimont USA Inc	Perfluorosolv PFS 1	100	52.78	☐	
Tarksol Inc	SRKS 40	100	100.33	☑	
Tomah Products Inc	Tomadyne 102	100	100.76	☑	
Chem Tech Solutions	Westech CT 1550	100	101.77	☑	
Chem Tech Solutions	Westech CT-4712	5	108.32	☐	cannot be used with aluminium

Conclusion: