CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 04/16/2002

Experimenters: Purav Dave

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Cutting/Tapping Fluids, Mold Releases, Latex binder

Cleaning Methods: Ultrasonics

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.

Degasifying: 5 min. cleaners were kept in tank with ultrasonic agitation at 120 F.
Cleaning: 2 min. at 120 F with ultrasonic agitation.
Rinsing: 1/2 min. manual with water at 120 F.
Drying: 1 min. with heat gun at 500 F.
Contaminants:
1. Oil: Winfield Brooks (winbro)-Alumtap Cas #: 64742-53-6, 127-18-6, 111-63-7.
2. Silicone Emulsion, GE-SM-2163
Silicone Emulsion
Cas #: 112945-52-5
3. Latex Binder Mix:
Cas #: 9016-45-9, 7664-41-7, 50-00-0, 57-55-6, 79-06-1, 924-42-5, 1333-86-4, 7732-18-5.

Results:

Summary:

Substrates:	Stainless Steel				
Contaminants:	Cutting/Tapping Fluids, Mold Releases, Latex binder				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Tech Spray Inc	Concentrated Aqueous Defluxer	5	86.37	☑	Contaminant: Oil
Transene Company, Inc.	D-Greeze GL 46	5	90.11	☑	
Tech Spray Inc	Concentrated Aqueous Defluxer	5	94.93	☑	Contaminant: Oil
Sysco Corporation	Fryer & Grill Cleaner	5	90.23	☑	Latex Binder Mix
Transene Company, Inc.	D-Greeze GL 46	5	105.30	☐	Contaminant: Latex Binder Mix
Sysco Corporation	Fryer & Grill Cleaner	5	112.63	☐	Contaminant: Latex Binder Mix
Chem Tech Solutions	Westech CT 1550	100	77.85	☐	Contaminant: Latex Binder Mix
Chem Tech Solutions	Westech CT-4712	5	107.16	☐	Contaminant: Latex Binder Mix

Conclusion: