

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 04/17/2002

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	<input checked="" type="checkbox"/>	Contaminant: Oil
Transene Company, Inc.	D-Greeze GL 46	5	90.11	<input checked="" type="checkbox"/>	
Tech Spray Inc	Concentrated Aqueous Defluxer	5	94.93	<input checked="" type="checkbox"/>	Contaminant: Oil
Sysco Corporation	Fryer & Grill Cleaner	5	90.23	<input checked="" type="checkbox"/>	Latex Binder Mix
Transene Company, Inc.	D-Greeze GL 46	5	105.30	<input type="checkbox"/>	Contaminant: Latex Binder Mix
Sysco Corporation	Fryer & Grill Cleaner	5	112.63	<input type="checkbox"/>	Contaminant: Latex Binder Mix
Chem Tech Solutions	Westech CT 1550	100	77.85	<input type="checkbox"/>	Contaminant: Latex Binder Mix
Chem Tech Solutions	Westech CT-4712	5	107.16	<input type="checkbox"/>	Contaminant: Latex Binder Mix

Conclusion: