

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 02/04/2002

Experimenters: Purav Dave

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Buffing/Polishing Compounds, Greases, Paints, Resins/Rosins

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.
 Degasification: 5 min. in ultrasonic tank at 120 F.
 Cleaning: 2 min. in ultrasonic tank at 120 F.
 Rinsing: 1/2 min. manual in water at 120 F.
 Drying: 1 min. with heat gun at 500 F.
 Contaminant:
 1. Grease: Keystone KSL 111, ELF Lubricants-Diester
 2. Resin - Ashland Chemical Aroset PS 8078, (Lot# 071901). (141-78-6 Ethyl Acetate, 142-82-5 Heptane, 67-63-0 Isopropanol)
 3. Buffing compound - The Lea Manufacturing Company Learok 2-B-111 - Abrasive, Fatty acids, Glycerides and petroleum wax/oil mix-silica dust (14808-60-7)
 4. Paint - Nybco Designer Colors Satin finish 4660 Country Blue, Contains Toluene, Xylene, Acetone

Results: After running ultrasonic on resin contaminated coupons, they were wiped off with the tissue so that all the loose resin would be removed.

Summary:

Substrates:	Stainless Steel				
Contaminants:	Buffing/Polishing Compounds, Greases, Paints, Resins/Rosins				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Magnaflux	Daraclean 235	5	29.64	<input type="checkbox"/>	Contaminant: grease
Oakite Products	Citradet	5	79.96	<input type="checkbox"/>	Contaminant: grease
Oakite Products	Inproclean 2500	5	89.43	<input checked="" type="checkbox"/>	Contaminant: grease
Watson Technical Associates	Watson Formula 7300	5	71.40	<input type="checkbox"/>	Contaminant: grease
Finger Lakes Chemical	1-1-02	100	76.99	<input type="checkbox"/>	Contaminant: buffing compound
Bio Chem Systems	Solsafe 245	100	69.09	<input type="checkbox"/>	Contaminant: resin
Today & Beyond	Beyond 2006	5	1.01	<input type="checkbox"/>	Contaminant: paint

Conclusion: