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:

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Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Magnaflux	Daraclean 235	5	29.64	☐	Contaminant: grease
Oakite Products	Citradet	5	79.96	☐	Contaminant: grease
Oakite Products	Inproclean 2500	5	89.43	☑	Contaminant: grease
Watson Technical Associates	Watson Formula 7300	5	71.40	☐	Contaminant: grease
Finger Lakes Chemical	1-1-02	100	76.99	☐	Contaminant: buffing compound
Bio Chem Systems	Solsafe 245	100	69.09	☐	Contaminant: resin
Today & Beyond	Beyond 2006	5	1.01	☐	Contaminant: paint

Conclusion: