

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002
 DateRun: 01/15/2002
 Experimenters: Purav Dave
 ClientType: Lab
 ProjectNumber: Project #1
 Substrates: Stainless Steel
 PartType: Coupon
 Contaminants: Cutting/Tapping Fluids, Inks, Paints
 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 crest at 120 F.
 Cleaning: 2 min. in ultrasonic at 120 F.
 Rinsing : 1/2 min. manual in water at 120 F.
 Drying : 1 min. with heat gun at 500 F.
 Contaminant:
 1. Citco cutting oil-NC-425 (64742-65-0, 64741-88-4, 64741-89-5, 64742-54-7)
 2. Paint - Diversy WB Filmite-Paint Maskant
 3. Ink - ITW Dykem Corp. Ink steel blue DK 100 (64-17-5, 123-86-4, 71-36-3, 9004-70-0, 67-63-0, 8004-87-3)

Results:

Summary:

Substrates:	Stainless Steel				
Contaminants:	Cutting/Tapping Fluids, Inks, Paints				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
AW Chesterton	181 Low Alkaline Cleaner	5	99.83	<input checked="" type="checkbox"/>	
Calgon Corporation	Geo Guard 2000	5	30.20	<input type="checkbox"/>	Ink
Simple Green	Crystal Simple Green Industrial Cleaner & Degreaser	5	99.66	<input checked="" type="checkbox"/>	
Calgon Corporation	Geo Guard 2000	5	103.39	<input checked="" type="checkbox"/>	cutting fluid

Conclusion: Geoguard failed to clean ink.