CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 09/01/2003

Experimenters: Jason Marshall

ClientType: Manufacturing

ProjectNumber: Project #1

Substrates: Aluminum, Plastic, Teflon

PartType: Coupon

Contaminants: Waxes

Cleaning Methods:

Analytical Methods:

Purpose: To generate a list of products that would be suitable for wax removal from coated aluminum parts.

Experimental Procedure: Using the laboratory's database for solvent cleaning substitution, the lab generated the following lists of products. The products have been evaluated at SSL under similar conditions to the client's criteria.

Results: Two lists of test results were generated. The first was for wax removal from aluminum substrates, and the second was for wax removal from other substrates. The specific wax information was also included when available.

Aluminum Results

Aluminum	
Contaminant Specifics Info	Total Of Effective?
Wax	4
Wax - Beeswax	6

Products

CompanyName	ProductName	Total
Bio Chem Systems	Bio T 200 A	1
Bio Chem Systems	Bio T Max	1
National Diagnostic	Histo Clear	1
National Diagnostic	Opti Clear	1
Oakite Products	Inproclean 2000	1
Oakite Products	Inproclean 3800	2
Solvent Kleene Inc	D Greeze 500 LO	1
Texo Corporation	Texolite 1734 XL	2

Other Substrates

ContaminantSpecificsInfo	Total Of Effective?
Wax	9
Wax - Aremco Crystalbond 509 (25610-19-9, 107-21-1)	1
Wax - Beeswax	4
Wax - Blanchard Stacking Wax #5	2
Wax - Roger Reed 6816 Wax, Naturally occurring organic and neutral materials	3
Wax - Roger Reed 93114 Wax, Hydrocarbon waxes	6
Wax - Roger Reed 98033 Wax, Hydrocarbon waxes	12
Wax - Roger Reed 98045 Wax, Hydrocarbon waxes	5
Wax - Stacking wax	4
Wax - Stevenson Brothers and Co. Inc. Petroleum Paraffin wax	8

Products

CompanyName	ProductName	Total

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AG Environmental Products	Canola Gold CE110	2
AJ Associates	Dynadet	2
Alconox Inc	Alcojet	2
Bio Chem Systems	Bio T 200 A	6
Bio Chem Systems	Bio T Max	2
Calgon Corporation	Geo Guard 2215	1
Dynamold Solvents Inc	DS 108	3
Florida Chemical Company	Citrus Burst 7	5
Innovative Organics Inc	Amberclean 527 L	2
Metabolix Inc	Metabolix E3HB	3
National Diagnostic	Histo Clear	1
National Diagnostic	Opti Clear	9
Oakite Products	Inproclean 2000	2
Oakite Products	Inproclean 3800	4
Pentone Corporation	Citrikleen XPC	4
Solvent Kleene Inc	D Greeze 1000	1
Solvent Kleene Inc	D Greeze 500 LO	1
Today & Beyond	Beyond 2006	1
Universal Photonics	Uni Clear	1
Universal Photonics	Uni Clear II	1
US Polychem Corporation	Polyspray Jet 790 C	1

Summary:

Conclusion: Cleaning varies from case to case. The SSL recommends process specific testing on potential replacement cleaning chemicals. If more information is needed on a particular product, or you are interested in conducting cleaning trials, please contact the lab at (978)934-3133.