

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004

DateRun: 02/02/2004

Experimenters: Jason Marshall

ClientType: Chemical Company

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Resins/Rosins

Cleaning Methods: Immersion/Soak

Analytical Methods:

Purpose: To identify alternatives to ammonia for cleaning polymer

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: One product has been used successfully on a styrene based coating (Coating - Styrene Butadiene) Finger Lakes Chemicals Resineater

Several other have been used on other resins. (Resin - Ashland Specialty Chemical Co, Acrylic Resin, Aroset 1872 Z 40 (108-88-3, 141-78-6, 142-82-5, 67-63-0); Resin - Formaldehyde Based Resin; Resin - Solutia Inc. Gelva Multipolymer Resin Solution 2895 (50862-46-9, 141-78-6, 142-82-5, 67-63-0, 64-17-5, 108-05-4)

| CompanyName | ProductName | Total Trials |
|------------------------|--------------------------|--------------|
| Bio Chem Systems | Bio T 300 B | 2 |
| Bio Chem Systems | Bio T Max | 2 |
| Bio Chem Systems | Solsafe 245 | 3 |
| Chrisal USA Inc | Super CMF 240 | 1 |
| Du Pont | DBE | 1 |
| Ecolink | Safe Strip | 1 |
| Finger Lakes Chemicals | Resineater | 1 |
| Gemtek Products | SC 1000 | 1 |
| ISP Technologies | Ship Shape Resin Cleaner | 1 |
| Magnaflux | Daraclean 232 | 1 |
| Oakite Products | Inproclean 3800 | 1 |
| Solvent Kleene Inc | D Greeze 500 LO | 1 |
| Tarksol Inc | Tarksol HTF-50 | 1 |

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|----------|------------------------------------|----------------------------|---------------|--------------------|--------------------------|----------------------|
| Summary: | Substrates: Stainless Steel | | | | | |
| | Contaminants: Resins/Rosins | | | | | |
| | Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| | No Specific Vendor | Supplied alternatives list | | | <input type="checkbox"/> | |

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.