

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 01/24/2002

Experimenters: Purav Dave

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Abrasive, Paints, Waxes

Cleaning Methods: Immersion/Soak

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.
Cleaning: 5 min. immersion cleaning at 120 F with mechanical agitation by means of air sparger.
(Cleaning with D-greeze was carried out at room temperature).
Rinsing: 1/2 min. manual with water at 120 F.
Drying: 1 min. with heat gun at 500 F.
Abrasive: Silicone - GE Silicones SM 2163 Silicone emulsion (112945-52-5)
Paint - Nybco Designer Colors Satin finish 4660 Country Blue, Contains Toluene, Xylene, Acetone
Wax - Stevenson Brothers and Co. Inc. Petroleum Paraffin wax

Results: Except for wax coupons other were dried using heat gun.
Coupons with wax were air dried.

Summary:

| Substrates: | | Stainless Steel | | | | |
|-------------------------|---------------------|-------------------------|-------------|-------------------------------------|-----------------------|--|
| Contaminants: | | Abrasive, Paints, Waxes | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: | |
| Transene Company, Inc. | D Greeze 1000 | 100 | 99.88 | <input checked="" type="checkbox"/> | Contaminant: Silicone | |
| US Polychem Corporation | Polyspray Jet 790 C | 5 | 98.14 | <input checked="" type="checkbox"/> | Contaminant: Silicone | |
| Transene Company, Inc. | D Greeze 1000 | 100 | 7.13 | <input type="checkbox"/> | Contaminant: wax | |
| Alconox Inc | Det-O-Jet | 5 | 0.02 | <input type="checkbox"/> | Contaminant: wax | |
| Turco Products Inc | Turco 5948 DPM | 5 | 4.24 | <input type="checkbox"/> | Contaminant: paint | |
| US Polychem Corporation | Polyspray Jet 790 C | 5 | 1.72 | <input type="checkbox"/> | Contaminant: paint | |

Conclusion: