

# 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:

|                         |                      |                         |                    |                                     |                       |  |
|-------------------------|----------------------|-------------------------|--------------------|-------------------------------------|-----------------------|--|
| <b>Substrates:</b>      |                      | Stainless Steel         |                    |                                     |                       |  |
| <b>Contaminants:</b>    |                      | Abrasive, Paints, Waxes |                    |                                     |                       |  |
| <b>Company Name:</b>    | <b>Product Name:</b> | <b>Conc.:</b>           | <b>Efficiency:</b> | <b>Effective:</b>                   | <b>Observations:</b>  |  |
| 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: