

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003  
 DateRun: 10/06/2003  
 Experimenters: Dave Hout  
 ClientType: Lab  
 ProjectNumber: Project #1  
 Substrates: Stainless Steel  
 PartType: Coupon  
 Contaminants: Adhesive  
 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. Five products were used at full strength at room temperature and three were heated to 130 F on a hot plate. Twenty-four preweighed coupons were coated with Re: Source Technologies Grid Set Green Blue 2000 (7732-18-4; 25212-88-8; 1310-58-3; 68649-38-7) and allowed to dry overnight and reweighed. Three coupons were cleaned in each solution for 5 minutes using stir-bar-agitation, rinsed in a tap water bath for 15 seconds at 120 F and dried using air blow off for 30 seconds at 68 F. Coupons were allowed to dry for a half an hour and then reweighed a final time. Efficiencies were calculated.

Results:

Summary:

| <b>Substrates:</b>                           |  | Stainless Steel   |        |             |                          |               |
|--|--|-------------------|--------|-------------|--------------------------|---------------|
| <b>Contaminants:</b>                         |  | Adhesive          |        |             |                          |               |
| Company Name:                                |  | Product Name:     | Conc.: | Efficiency: | Effective:               | Observations: |
| National Diagnostic                          |  | Histo Clear       | 100    | -13.50      | <input type="checkbox"/> |               |
| Transene Company, Inc.                       |  | D Greeze 1000     | 100    | 25.36       | <input type="checkbox"/> |               |
| Finger Lakes Chemical                        |  | Safer Stuff       | 100    | 30.49       | <input type="checkbox"/> |               |
| Universal RenigIngsmitel - Mulder Hardenberg |  | RST 5             | 100    | 30.80       | <input type="checkbox"/> |               |
| Magnaflux                                    |  | Daraclean 235     | 5      | 25.55       | <input type="checkbox"/> |               |
| Sky Products Company Inc                     |  | Cleaner #10       | 5      | 32.30       | <input type="checkbox"/> |               |
| US Polychem Corporation                      |  | Polychem A 2000 P | 5      | 28.69       | <input type="checkbox"/> |               |
| Universal Photonics                          |  | Uni Clear         | 100    | -61.27      | <input type="checkbox"/> |               |

Conclusion: No products were effective at removing the adhesive.