

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 04/02/2003

Experimenters: Heidi Wilcox

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Lubricating/Lapping Oils

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 with stir-bar agitation @ 120 F  
Rinsing: 1/2 min, manual, in 102 F water (tap)  
Drying: 1 min with heat gun @ 500F  
Contaminant: Elf Lubricants Novastone Safeguard 6 Food machinery Lube oil CAS# 64742-47-8, 8042-47-

## Results:

### Summary:

| <b>Substrates:</b>        |                                       | Stainless Steel          |                    |                                     |   |
|---------------------------|---------------------------------------|--------------------------|--------------------|-------------------------------------|---|
| <b>Contaminants:</b>      |                                       | Lubricating/Lapping Oils |                    |                                     |   |
| <b>Company Name:</b>      | <b>Product Name:</b>                  | <b>Conc.:</b>            | <b>Efficiency:</b> | <b>Effective:</b>                   | <b>Observations:</b>  |
| Florida Chemical Company  | Citrus Burst 7                        | 100                      | 58.04              | <input type="checkbox"/>            |   |
| Florida Chemical Company  | D-Limonene                            | 100                      | 72.40              | <input type="checkbox"/>            | Could increase efficiency by increasing time or changing rinsing and/or drying method       |
| AG Environmental Products | Canola Gold CE110                     | 100                      | -22.18             | <input type="checkbox"/>            |   |
| AG Environmental Products | Soy Clear 1500                        | 100                      | -22.84             | <input type="checkbox"/>            |   |
| Vertec BioSolvents        | Paint stripper                        | 100                      | 38.67              | <input type="checkbox"/>            |   |
| Vertec BioSolvents        | VertecBio Gold Unscented Part Cleaner | 100                      | -23.87             | <input type="checkbox"/>            |   |
| Pentone Corporation       | Citrikleen XPC                        | 100                      | 65.64              | <input type="checkbox"/>            | Increase efficiency by increasing time of cleaning or by changing rinsing and drying method |
| Vertec BioSolvents        | Take Off Green                        | 100                      | 93.99              | <input checked="" type="checkbox"/> |   |

### Conclusion: