

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 01/14/2002

Experimenters: Purav Dave

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Latex binder

Cleaning Methods: Ultrasonics

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.  
 Degasing: 5 min. cleaners were kept in ultrasonic crest at 120 F.  
 Cleaning: 2 min. in ultrasonic crest at 120 F.  
 Rinsing: 1/2 min, manual, in tap water @ 120 F  
 Drying: 1 min with heat gun @ 500 F  
 Contaminant : Latex binder mix-(00146)-linear alky

## Results:

### Summary:

| <b>Substrates:</b>   |   | Stainless Steel |             |                          |               |  |
|----------------------|---|-----------------|-------------|--------------------------|---------------|--|
| <b>Contaminants:</b> |   | Latex binder    |             |                          |               |  |
| Company Name:        | Product Name:                                       | Conc.:          | Efficiency: | Effective:               | Observations: |  |
| Simple Green         | Crystal Simple Green Industrial Cleaner & Degreaser | 5               | 106.74      | <input type="checkbox"/> |               |  |
| Calgon Corporation   | Geo Guard 2000                                      | 5               | 115.45      | <input type="checkbox"/> |               |  |
| Calgon Corporation   | GP Xtra   | 5               | 106.54      | <input type="checkbox"/> |               |  |
| PCI of America       | Hurrisafe 9450                                      | 5               | 107.98      | <input type="checkbox"/> |               |  |
| Brulin Corporation   | Nature Sol 100                                      | 5               | 106.22      | <input type="checkbox"/> |               |  |
| AW Chesterton        | 181 Low Alkaline Cleaner                            | 5               | 121.02      | <input type="checkbox"/> |               |  |

Conclusion: All cleaners were effective but in some cases % efficiency was obtained above 100 %. This may be due to the fact that coupons the were not clean of the contaminant from the previous runs.