

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2001

DateRun: 12/27/2001

Experimenters: Purav Dave

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Latex binder

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 at 120 F  
Rinsing : 1/2 min. manual in water at 120 F  
Drying : 1 min. with heat gun at 500 F  
Contaminant : latex binder mix (00146),  
CAS# of contaminant : 9016-45-9,7664-41-7, 50-00-0

Results: Increase in weight in some cases, decrease in others.

Summary:

|                       |                      |                 |                    |                          |  |
|-----------------------|----------------------|-----------------|--------------------|--------------------------|--|
| <b>Substrates:</b>    |                      | Stainless Steel |                    |                          |  |
| <b>Contaminants:</b>  |                      | Latex binder    |                    |                          |  |
| <b>Company Name:</b>  | <b>Product Name:</b> | <b>Conc.:</b>   | <b>Efficiency:</b> | <b>Effective:</b>        | <b>Observations:</b>                         |
| Alconox Inc           | Alcojet              | 1               | 38.23              | <input type="checkbox"/> | Increase in weight in 1 coupon               |
| Buckeye International | Shopmaster FF        | 5               | -15.14             | <input type="checkbox"/> | Decrease in weight in only 1 coupon          |
| Buckeye International | Shopmaster HP        | 5               | 2.70               | <input type="checkbox"/> | Decrease in weight only in 1 coupon          |
| Buckeye International | Shopmaster LPH       | 5               | 82.13              | <input type="checkbox"/> | in one coupon removal was above 100 percent. |
| Calgon Corporation    | SC 431               | 5               | 26.60              | <input type="checkbox"/> |  |
| Buckeye International | Immersion Cleaner    | 5               | -9.26              | <input type="checkbox"/> | Decrease in weight in 1 coupon               |
| Brulin Corporation    | Aquavantage 1400     | 5               | -2.24              | <input type="checkbox"/> | Decrease in weight of one coupon             |

Conclusion: Failure of the test. Bizarre change in weight of the coupons found.