

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004  
DateRun: 02/05/2004  
Experimenters: Dave Hout  
ClientType: Lab  
ProjectNumber: Project #1  
Substrates: Aluminum  
PartType: Coupon  
Contaminants: Resins/Rosins  
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. One product was heated to 130 F on a hot plate and two products were used at full strength. Twenty-four preweighed coupons were coated with Ashland Acrylic Resin Aroset 1872 Z40 (108-88-3, 141-78-6, 142-82-5, 67-63-0) and allowed to dry for a half an hour 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>           |                           | Aluminum      |                    |                          |                      |  |
| <b>Contaminants:</b>         |                           | Resins/Rosins |                    |                          |                      |  |
| <b>Company Name:</b>         | <b>Product Name:</b>      | <b>Conc.:</b> | <b>Efficiency:</b> | <b>Effective:</b>        | <b>Observations:</b> |  |
| Chemtronics Inc              | Super Bio Wash            | 100           | -3.67              | <input type="checkbox"/> |                      |  |
| Chemkleen International Inc. | CT 1 Multipurpose Cleaner | 5             | 25.89              | <input type="checkbox"/> |                      |  |
| Kyzen Corporation            | Ionox HC                  | 100           | -36.65             | <input type="checkbox"/> |                      |  |

Conclusion: None of the products were effective at removing the contaminants.