

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004

DateRun: 03/03/2004

Experimenters: Dave Hout

ClientType: Lab

ProjectNumber: Project #1

Substrates: Aluminum

PartType: Coupon

Contaminants: Coatings

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. Three products were used at full strength and one product was heated to 130 F on a hot plate. Twelve preweighed coupons were coated with Ferrocote 5815 LVO 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> |                               | Coatings      |                    |                                     |                      |
| <b>Company Name:</b> | <b>Product Name:</b>          | <b>Conc.:</b> | <b>Efficiency:</b> | <b>Effective:</b>                   | <b>Observations:</b> |
| Calgon Corporation   | Geo Guard 3015                | 5             | 87.63              | <input checked="" type="checkbox"/> |                      |
| ISP Technologies     | Ship Shape Resin Cleaner      | 100           | 50.43              | <input type="checkbox"/>            |                      |
| Dow Chemical Company | XUS 40571 Development Solvent | 100           | 93.90              | <input checked="" type="checkbox"/> |                      |
| Dow Chemical Company | XUS 40579 Development Solvent | 100           | 94.34              | <input checked="" type="checkbox"/> |                      |

Conclusion: Three of the four products were effective at removing the contaminants with an efficiency rate of >87%