# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004

DateRun: 03/02/2004

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:

| **Substrates:** | Aluminum | | | | |
|---|---|---|---|---|---|
| **Contaminants:** | Coatings | | | | |
| **Company Name:** | **Product Name:** | **Conc.:** | **Efficiency:** | **Effective:** | **Observations:** |
| Calgon Corporation | Geo Guard 3015 | 5 | 87.63 | ☑ | |
| ISP Technologies | Ship Shape Resin Cleaner | 100 | 50.43 | ☐ | |
| Dow Chemical Company | XUS 40571 Development Solvent | 100 | 93.90 | ☑ | |
| Dow Chemical Company | XUS 40579 Development Solvent | 100 | 94.34 | ☑ | |

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