

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 12/03/2003

Experimenters: Dave Hout

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Greases

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. Seven products were heated to 130 F on a hot plate and one product was used at full strength. Twenty-four preweighed coupons were coated with Grease - Daubert Chemical Co. Tectyl 891 Class I Cosmoline 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: | | Stainless Steel | | | | |
| Contaminants: | | Greases | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: | |
| BetzDearborne Laboratories Inc | Custom Clean N CC 2278 | 100 | 75.07 | <input type="checkbox"/> | | |
| Buckeye International | Work Out | 5 | 37.22 | <input type="checkbox"/> | | |
| Calgon Corporation | Geo Guard 3015 | 5 | -51.91 | <input type="checkbox"/> | | |
| Delta Omega Technologies Ltd | Attar D(R3) | 5 | 40.52 | <input type="checkbox"/> | | |
| Hurri Kleen Corportion | HurriSafe - Hot Immersion Degreaser | 5 | 17.77 | <input type="checkbox"/> | | |
| Heatbath Corporation | MultiKleen LX 1573 | 5 | 49.27 | <input type="checkbox"/> | | |
| International Products Corporation | Zymit | 5 | -81.70 | <input type="checkbox"/> | | |
| Magnaflux | Daraclean 235 | 5 | 8.92 | <input type="checkbox"/> | | |

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