

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003
 DateRun: 12/05/2003
 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 - CRC Industries Multipurpose Super White Grease (647-41-96-4, 7620-77-1, 1314-13-2, 57885-77-3, 13463-67-7) 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:

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|------------------------------------|-------------------------------------|-----------------|--------------------|-------------------------------------|----------------------|--|
| Substrates: | | Stainless Steel | | | | |
| Contaminants: | | Greases | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: | |
| BetzDearborne Laboratories Inc | Custom Clean N CC 2278 | 100 | 94.59 | <input checked="" type="checkbox"/> | | |
| Buckeye International | Work Out | 5 | 99.35 | <input checked="" type="checkbox"/> | | |
| Calgon Corporation | Geo Guard 3015 | 5 | 5.11 | <input type="checkbox"/> | | |
| Delta Omega Technologies Ltd | Attar D(R3) | 5 | 53.95 | <input type="checkbox"/> | | |
| Hurri Kleen Corportion | HurriSafe - Hot Immersion Degreaser | 5 | 80.81 | <input type="checkbox"/> | | |
| Heatbath Corporation | MultiKleen LX 1573 | 5 | 98.72 | <input checked="" type="checkbox"/> | | |
| International Products Corporation | Zymit | 5 | 8.08 | <input type="checkbox"/> | | |
| Magnaflux | Daraclean 235 | 5 | 29.91 | <input type="checkbox"/> | | |

Conclusion: Three out of eight products were effective at an efficiency rate of over 94%