

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 11/03/2003

Experimenters: Dave Hout

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Lubricating/Lapping Oils

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. Eight products were heated to 130 F on a hot plate. Twenty-four preweighed coupons were coated with Lubricant LPS Magnum Teflon 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: | | Lubricating/Lapping Oils | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: | |
| AW Chesterton | 217 Pressure wash | 5 | 98.99 | <input checked="" type="checkbox"/> | | |
| Alconox Inc | Liquinox | 5 | 97.04 | <input checked="" type="checkbox"/> | | |
| Bio Chem Systems | Bio T Parts Washer NR | 5 | 97.01 | <input checked="" type="checkbox"/> | | |
| Buckeye International | XL 100 Cleaner & Degreaser | 5 | 100.04 | <input checked="" type="checkbox"/> | | |
| Dow Chemical Company | PnB Glycol Ether | 5 | 99.04 | <input checked="" type="checkbox"/> | | |
| Man Gill Chemical Company | Gillite 0650 Cl | 5 | 99.15 | <input checked="" type="checkbox"/> | | |
| Today & Beyond | Beyond 2003 | 5 | 98.73 | <input checked="" type="checkbox"/> | | |
| US Polychem Corporation | Polychem A 2000 P | 5 | 99.30 | <input checked="" type="checkbox"/> | | |

Conclusion: All products were effective at an efficiency rate of over 95%