

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003
DateRun: 10/29/2003
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. One product was used at full strength at room temperature and seven products were heated to 130 F on a hot plate. Twenty-four preweighed coupons were coated with Grease Dauberyt Chemical co Tectyle 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: | |
| Man Gill Chemical Company | Gillite 1156 | 100 | 3.77 | <input type="checkbox"/> | | |
| Man Gill Chemical Company | Gillite 0650 Cl | 5 | 28.88 | <input type="checkbox"/> | | |
| AW Chesterton | 217 Pressure wash | 5 | 0.74 | <input type="checkbox"/> | | |
| Alconox Inc | Liquinox | 5 | 19.56 | <input type="checkbox"/> | | |
| Bio Chem Systems | Bio T Parts Washer NR | 5 | 92.39 | <input checked="" type="checkbox"/> | | |
| Buckeye International | XL 100 Cleaner & Degreaser | 5 | 91.42 | <input checked="" type="checkbox"/> | | |
| Today & Beyond | Beyond 2003 | 5 | 41.33 | <input type="checkbox"/> | | |
| US Polychem Corporation | Polychem A 2000 P | 5 | 18.65 | <input type="checkbox"/> | | |

Conclusion: Only two products were effective at an efficiency rate of over 90%.