

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002
 DateRun: 09/27/2002
 Experimenters: Heidi Wilcox
 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.
 Cleaning: 5 min Immersion cleaning with stir-bar agitation @ 68 F
 Rinsing: 1/2 min, manual, in 68 F water (tap)
 Drying: 1 min with heat gun @ 500F
 Contaminant: Formax Manufacturing Corp, F-26 grease stick polishing lubricant (solid)
 CAS# 68815-16-7 Saponified stearic
 67701-27-3 Hydrofol glycerine
 64742-52-5 Mineral oil
 102-71-6 Emulsifying agent

Results: None of the cleaners were effective at ambient temperature. Will perform next trial with added heat, cleaners and rinse water will be at 120 F.

Summary:

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|---------------------------|----------------------------------|---------------|--------------------|--------------------------|----------------------|
| Substrates: | Stainless Steel | | | | |
| Contaminants: | Greases | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| EcoLink | Bulldog | 5 | 62.83 | <input type="checkbox"/> | |
| Innovative Organics Inc | Amberclean Q3 | 5 | 27.34 | <input type="checkbox"/> | |
| AG Environmental Products | Soy Clear 1500 | 100 | -64.47 | <input type="checkbox"/> | |
| AG Environmental Products | Canola Gold CE110 | 100 | 8.53 | <input type="checkbox"/> | |
| Phase III Inc | California Parts Washer Solution | 5 | 15.36 | <input type="checkbox"/> | |
| PCI of America | Hurrisafe 9575 | 5 | 21.76 | <input type="checkbox"/> | |

Conclusion: