

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002
 DateRun: 09/06/2002
 Experimenters: Heidi Wilcox
 ClientType: Lab
 ProjectNumber: Project #1
 Substrates: Stainless Steel
 PartType: Coupon
 Contaminants: Cutting/Tapping Fluids
 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 @ 120 F, ambient
 Rinsing: 1/2 min, manual, in 120F water (tap), ambient
 Drying: 1 min with heat gun @ 500F
 Contaminant: Steco Corp, Tap Magic Protap (cutting fluid)
 CAS# 112-80-1(>75%) Aliphatic organic acid
 112-62-9 (<15%) Aliphatic organic ester

Results:

Summary:

| | | | | | |
|---------------------------|----------------------------------|---------------|--------------------|-------------------------------------|----------------------|
| Substrates: | Stainless Steel | | | | |
| Contaminants: | Cutting/Tapping Fluids | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| EcoLink | Bulldog | 5 | 97.82 | <input checked="" type="checkbox"/> | |
| Innovative Organics Inc | Amberclean Q3 | 5 | 93.31 | <input checked="" type="checkbox"/> | |
| AG Environmental Products | Soy Clear 1500 | 100 | 88.52 | <input checked="" type="checkbox"/> | |
| AG Environmental Products | Canola Gold CE110 | 100 | 91.98 | <input checked="" type="checkbox"/> | |
| Phase III Inc | California Parts Washer Solution | 5 | 95.70 | <input checked="" type="checkbox"/> | |
| PCI of America | Hurrisafe 9575 | 5 | 96.88 | <input checked="" type="checkbox"/> | |

Conclusion: The heated wash and rinse increased the effectiveness of all the cleaners.