

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 03/31/2003

Experimenters: Jason Marshall

ClientType: Lab

ProjectNumber: Project #1

Substrates: Brass

PartType: Coupon

Contaminants: Buffing/Polishing Compounds

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
Rinsing: 1/2 min, manual, in 102 F water (tap)
Drying: 30 seconds air blow off, 68 F
Contaminant: Buffing compound, Jackson Lea Antique buffing CAS# 9000-70-8, 1344-28-1, 409-21-2, 1309-37-1)

Results:

Summary:

| | | | | | |
|---------------------------|---------------------------------------|-----------------------------|--------------------|--------------------------|----------------------|
| Substrates: | | Brass | | | |
| Contaminants: | | Buffing/Polishing Compounds | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| Metabolix Inc | Metabolix E3HB | 100 | 2.40 | <input type="checkbox"/> | |
| Florida Chemical Company | Citrus Burst 7 | 100 | 1.25 | <input type="checkbox"/> | |
| Florida Chemical Company | D-Limonene | 100 | 22.56 | <input type="checkbox"/> | |
| Twin Rivers Technologies | Methyl Ester 1618 | 100 | -9.92 | <input type="checkbox"/> | |
| AG Environmental Products | Canola Gold CE110 | 100 | -4.45 | <input type="checkbox"/> | |
| AG Environmental Products | Soy Clear 1500 | 100 | -4.53 | <input type="checkbox"/> | |
| Vertec BioSolvents | Take Off Green | 100 | 15.35 | <input type="checkbox"/> | |
| Vertec BioSolvents | VertecBio Gold Unscented Part Cleaner | 100 | -1.57 | <input type="checkbox"/> | |
| Pentone Corporation | Citrikleen XPC | 100 | -1.04 | <input type="checkbox"/> | |

Conclusion: After cleaning, wiping was performed to see if efficiencies would increase significantly. Trial 254 shows these results.