

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 03/28/2003

Experimenters: Jason Marshall

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Adhesive

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: InstaCure Adhesive CAS# 7085-85-0
Insta set CAS# 64742-89-8, 99-97-8

Results:

Summary:

| Substrates: | | Stainless Steel | | | |
|---------------------------|---------------------------------------|-----------------|-------------|--------------------------|--|
| Contaminants: | | Adhesive | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| Metabolix Inc | Metabolix E3HB | 100 | -49.42 | <input type="checkbox"/> | Softened the adhesive but unable to remove with rinse. May need more time or energy. |
| Florida Chemical Company | Citrus Burst 7 | 100 | 31.68 | <input type="checkbox"/> | adhesive was dripping off with water. A higher pressure rinse may help. |
| Florida Chemical Company | D-Limonene | 100 | 46.55 | <input type="checkbox"/> | adhesive very soft, need better removal method such as a high pressure spray |
| Twin Rivers Technologies | Methyl Ester 1618 | 100 | -74.08 | <input type="checkbox"/> | adhesive very soft |
| AG Environmental Products | Canola Gold CE110 | 100 | -130.75 | <input type="checkbox"/> | |
| AG Environmental Products | Soy Clear 1500 | 100 | -153.43 | <input type="checkbox"/> | |
| Vertec BioSolvents | VertecBio Gold Unscented Part Cleaner | 100 | -80.41 | <input type="checkbox"/> | |
| Pentone Corporation | Citrikleen XPC | 100 | 28.37 | <input type="checkbox"/> | |
| Vertec BioSolvents | Take Off Green | 100 | 65.88 | <input type="checkbox"/> | |

Conclusion: After cleaning, rinsing and drying, some coupons had a noticeable residue. Wiping was performed to see if efficiencies would increase significantly. Trial 253 shows these results.