

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 02/25/2002

Experimenters: Purav Dave

ClientType: Lab

ProjectNumber: Project #1

Substrates: Aluminum

PartType: Coupon

Contaminants: Inks

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 at 120 F with stir-bar agitation.
Rinsing: 1/2 min. manual with water at 120 F.
Drying: 1 min. with heat gun at 500 F.
Contaminant: Ink: ITW Dykem
CAS#: 64175, 123864, 71363, 9004700, 67630, 8004873.

Results:

Summary:

| Substrates: | Aluminum | | | | |
|-----------------------------------|------------------------------------|--------|-------------|--------------------------|---------------|
| Contaminants: | Inks | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| United Laboratories International | United 450 All Clear | 5 | 8.88 | <input type="checkbox"/> | |
| ITW Fluid Products Group | AccuClean | 5 | -5.97 | <input type="checkbox"/> | |
| Oakite Products | Inproclean 2000 | 5 | -9.69 | <input type="checkbox"/> | |
| Carroll Company | Blue Gold Heavy Industrial Cleaner | 5 | 2.74 | <input type="checkbox"/> | |
| Chemical Technologies | Green Thunder | 5 | -5.10 | <input type="checkbox"/> | |
| EnviroSan Products Ltd | Solution 2000 | 5 | -18.26 | <input type="checkbox"/> | |

Conclusion: None of the cleaners were effective.