

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004

DateRun: 07/07/2004

Experimenters: Heidi Wilcox

ClientType: Lab

ProjectNumber: Project #1

Substrates: Sterling/Silver

PartType: Coupon

Contaminants: Oil

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 at 96 F with stir-bar agitation.
NO Rinsing
Drying: 30 sec. Air blow off using hose and outlet on bench
Contaminant:
Oil - Exxon Mobile Vacimul O3D Cas# 64741-44-2
Substrate 2 " x 2" Silver plated copper

Results:

Summary:

| | | | | | |
|----------------------|---------------------------------|---------------|--------------------|-------------------------------------|----------------------|
| Substrates: | Sterling/Silver | | | | |
| Contaminants: | Oil | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| Petroferm Inc | Lenium CP (no longer available) | 100 | 99.40 | <input checked="" type="checkbox"/> | |
| Petroferm Inc | Lenium ES | 100 | 98.65 | <input checked="" type="checkbox"/> | |
| Invista S.a.r.l | Flexisolv DBE 6 ester | 100 | 100.13 | <input checked="" type="checkbox"/> | |

Conclusion: All were effective.