

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004

DateRun: 07/07/2004

Experimenters: Heidi Wilcox

ClientType: Lab

ProjectNumber: Project #1

Substrates: Sterling/Silver

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 at 96 F with stir-bar agitation.  
NO Rinsing  
Drying: 30 sec. Air blow off using hose  
Contaminant:  
Cutting Fluid - Houghton Intentional Cut -Max Cas# 64742-52-5, 64741-96-4  
Substrate 2 "

## Results:

### Summary:

|                      |                                 |               |                    |                                     |                      |
|----------------------|---------------------------------|---------------|--------------------|-------------------------------------|----------------------|
| <b>Substrates:</b>   | Sterling/Silver                 |               |                    |                                     |                      |
| <b>Contaminants:</b> | Cutting/Tapping Fluids          |               |                    |                                     |                      |
| <b>Company Name:</b> | <b>Product Name:</b>            | <b>Conc.:</b> | <b>Efficiency:</b> | <b>Effective:</b>                   | <b>Observations:</b> |
| Petroferm Inc        | Lenium CP (no longer available) | 100           | 99.51              | <input checked="" type="checkbox"/> |                      |
| Petroferm Inc        | Lenium ES                       | 100           | 99.75              | <input checked="" type="checkbox"/> |                      |
| Invista S.a.r.l      | Flexisolv DBE 6 ester           | 100           | 100.17             | <input checked="" type="checkbox"/> |                      |

Conclusion: All cleaners were effective.