

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 03/31/2003

Experimenters: Jason Marshall

ClientType: Lab

ProjectNumber: Project #1

Substrates: Aluminum

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 with stir-bar agitation @ 120 F
Drying: wipe
Contaminant: Relton Corp Option 1 Cutting Fluid CAS# 1312-76-1, 265-18-2

Results:

Summary:

| | | | | | |
|---------------------------|---------------------------------------|---------------|--------------------|--------------------------|----------------------|
| Substrates: | Aluminum | | | | |
| Contaminants: | Cutting/Tapping Fluids | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| Twin Rivers Technologies | Methyl Ester 1618 | 100 | 47.29 | <input type="checkbox"/> | |
| AG Environmental Products | Canola Gold CE110 | 100 | 78.14 | <input type="checkbox"/> | |
| AG Environmental Products | Soy Clear 1500 | 100 | 78.67 | <input type="checkbox"/> | |
| Vertec BioSolvents | VertecBio Gold Unscented Part Cleaner | 100 | 80.37 | <input type="checkbox"/> | |

Conclusion: