

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 10/09/2003

Experimenters: Dave Hout

ClientType: Lab

ProjectNumber: Project #1

Substrates: Brass

PartType: Coupon

Contaminants: Buffing/Polishing Compounds

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. Two products were used at full strength at room temperature and four were heated to 130 F on a hot plate. Twenty-four preweighed coupons were coated with Jackson Lea Antique Buffing Compound (cm-12) and allowed to dry for a half an hour and reweighed. Three coupons were cleaned in each solution for 5 minutes using stir-bar-agitation, rinsed in a tap water bath for 15 seconds at 120 F and dried using air blow off for 30 seconds at 68 F. Coupons were allowed to dry for a half an hour and then reweighed a final time. Efficiencies were calculated.

Results:

Summary:

| Substrates: | | Brass | | | |
|---------------------------|-----------------|-----------------------------|-------------|-------------------------------------|---------------|
| Contaminants: | | Buffing/Polishing Compounds | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| Magnaflux | Daraclean 235 | 5 | 79.17 | <input type="checkbox"/> | |
| Today & Beyond | Beyond 2003 | 5 | 88.81 | <input checked="" type="checkbox"/> | |
| Transene Company, Inc. | D Greeze 1000 | 100 | 74.49 | <input type="checkbox"/> | |
| Hubbard Hall Inc | Aquasonic 201 | 5 | 59.95 | <input type="checkbox"/> | |
| Man Gill Chemical Company | Gillite 0650 Cl | 5 | 72.91 | <input type="checkbox"/> | |
| Man Gill Chemical Company | Gillite 1156 | 100 | -3.32 | <input type="checkbox"/> | |

Conclusion: Beyond 2003 was the only effective cleaner at an efficiency rate of over 85%.