# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 10/14/2003

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. Eighteen preweighed coupons were coated with Matchless Metal Polishing C2-230 BC 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 | 95.13 | ☑ | |
| Today & Beyond | Beyond 2003 | 5 | 93.89 | ☑ | |
| Transene Company, Inc. | D Greeze 1000 | 100 | 84.09 | ☐ | |
| Hubbard Hall Inc | Aquasonic 201 | 5 | 116.94 | ☐ | |
| Man Gill Chemical Company | Gillite 0650 Cl | 5 | 62.30 | ☐ | |
| Man Gill Chemical Company | Gillite 1156 | 100 | 92.20 | ☑ | |

Conclusion: Three out of the six cleaners were successful at removing the contaminant at an efficiency rate of over 90%.