

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003
 DateRun: 09/09/2003
 Experimenters: Jason Marshall
 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. Four products were used at full strength, heated to 120 F on a hot plate. Twelve preweighed coupons were coated with Jackson Lea Antique Buffing Compound LM 12 (9000-70-8, 1344-28-1, 409-21-2, 1309-37-1) and allowed to dry overnight 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 overnight and then reweighed a final time. Efficiencies were calculated.
 Note: Bio T Foam Plus was sprayed onto coupons at room temperature and allowed to sit for 5 minutes. The cleaner was then wiped clean.

Results: Two products removed over 95% of the buffing compound and a third removed over 85%.

Summary:

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|----------------------|-----------------------------|---------------|--------------------|-------------------------------------|----------------------|
| Substrates: | Brass | | | | |
| Contaminants: | Buffing/Polishing Compounds | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| AW Chesterton | 278 Super Solv | 100 | 95.63 | <input checked="" type="checkbox"/> | |
| Bio Chem Systems | Bio T Foam Plus | 100 | 95.61 | <input checked="" type="checkbox"/> | |
| Invista S.a.r.l | Flexisolv DBE Ester | 100 | 88.59 | <input checked="" type="checkbox"/> | |
| Gemtek Products | SC EZ Solv Safety Solvent | 100 | 52.56 | <input type="checkbox"/> | |

Conclusion: AW Chesteron 278 Super Solv, Bio Chem Systems Bio T Foam Plus and DuPont DBE were all effective.