

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 85% of this buffing compound. A third product may work with longer cleaning time.

Summary:

Substrates:	Brass				
Contaminants:	Buffing/Polishing Compounds				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
AW Chesterton	278 Super Solv	100	85.96	<input checked="" type="checkbox"/>	
Bio Chem Systems	Bio T Foam Plus	100	85.87	<input checked="" type="checkbox"/>	
Invista S.a.r.l	Flexisolv DBE Ester	100	62.50	<input type="checkbox"/>	
Gemtek Products	SC EZ Solv Safety Solvent	100	12.40	<input type="checkbox"/>	

Conclusion: AW Chesterton 278 Super Solv and Bio Chem Systems Bio T Foam Plus were effective at removing this buffing compound. DuPont's DBE may work with longer cleaning time.