CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2003
DateRun:	09/08/2003
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	☑	
Bio Chem Systems	Bio T Foam Plus	100	85.87	☑	
Invista S.a.r.l	Flexisolv DBE Ester	100	62.50	☐	
Gemtek Products	SC EZ Solv Safety Solvent	100	12.40	☐	

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.