

## CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2005  
DateRun: 08/09/2005  
Experimenters: Jason Marshall  
ClientType: Metal Finishing  
ProjectNumber: Project #1  
Substrates: Brass  
PartType: Part  
Contaminants: Buffing/Polishing Compounds  
Cleaning Methods: Immersion/Soak  
Analytical Methods: Photography, Visual

Purpose: To evaluate three products for buffing compound removal using heated immersion cleaning.

Experimental Procedure: Three products from the previous trial were selected based on their high efficiency removing the various buffing compounds. Each product, Ensolv, CCA and Lenium ES were poured into 250 ml glass beakers and placed on a stir-plate and heated to 105 F. Three brass parts presoiled with the brown buffing compound were photographed to establish the baseline level of contamination. One part was immersed into each solution and cleaned for 5 minutes at 105 F. Following cleaning, parts were photographed again and observations were made.

Results: The Lenium ES was the most effective at the heated temperature and Ensolv was the next best. All three products removed more buffing compound with the heat than in the immersion at room temperature.

Summary:

<b>Substrates:</b>	Brass				
<b>Contaminants:</b>	Buffing/Polishing Compounds				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Enviro Tech International Inc	Ensolv	100		<input checked="" type="checkbox"/>	
DuPont	Vertrel CCA	100		<input checked="" type="checkbox"/>	
Petroferm Inc	Lenium ES	100		<input checked="" type="checkbox"/>	Most effective

Conclusion: The products worked very well with the heated immersion cleaning. Next steps will be to clean supplied parts using vapor degreasing.