

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2006  
 DateRun: 10/31/2006  
 Experimenters: Jason Marshall, Heidi Wilcox  
 ClientType: Metal Working  
 ProjectNumber: Project #1  
 Substrates: Brass  
 PartType: Part  
 Contaminants: Buffing/Polishing Compounds  
 Cleaning Methods: Low Pressure Spray  
 Analytical Methods: Gravimetric

Purpose: To evaluate selected cleaner using spray washing.

Experimental Procedure: One cleaning product was diluted to 10% using hot tap water (120 F) in a 1000 ml beaker. Supplied brass parts that were received already contaminated were cleaned in the solution for less than one minute. Two types of parts were cleaned. Following cleaning in the low-pressure spray system parts were rinsed for 15 seconds in a tap water bath at 120 F and dried using dry compressed air at room temperature. Parts were analyzed visually. Cleaned parts were packaged and sent to the client. Following the cleaning at 10%, the product would be diluted to a lower concentration to reduce foaming if necessary.

Results: Both sets of parts subjected to the low-pressure spray had a significant amount of buffing compound removed within the 1 minute of cleaning. The cleaning solution at 10% had no excess foaming issues. During cleaning, the spray flow was directed into the 1000 ml beaker (filled within 0.5 inches of the top of the beaker with cleaning product). There was some bubbling of the solution but not enough to have any overflow of the beaker. There was no overflow even after 5 minutes of continual spray into the beaker.

Summary:

<b>Substrates:</b>		Brass			
<b>Contaminants:</b>		Buffing/Polishing Compounds			
<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
Alconox Inc	Detergent 8	10		<input checked="" type="checkbox"/>	No foaming

Conclusion: Parts did not have to be completely clean to be considered successful as the spray washing was an attempt to remove excess buffing compound prior to cleaning with ultrasonic energy. The 10% solution of Detergent 8 had no foaming issues and removed about half of the buffing compound with minimal spray time and pressure.