

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2008  
 DateRun: 10/07/2008  
 Experimenters: Heidi Wilcox  
 ClientType: Tool Manufacturer  
 ProjectNumber: Project #1  
 Substrates: Steel  
 PartType: Part  
 Contaminants: Metal fines  
 Cleaning Methods: Ultrasonics  
 Analytical Methods: Visual

**Purpose:** To evaluate the two aqueous products from the previous trial in ultrasonics to see if there was any difference in cleanliness. Products were tested on customer supplied parts using ultrasonic cleaning at room temp.

**Experimental Procedure:** Two products from the previous trial were selected and were diluted to 5% using DI water in 600 ml glass beakers. Solutions were used at room temperature, 68 F, and cleaned by ultrasonics for 5 minutes and dried using air blow off for 30 seconds at room temperature.

**Results:** Both products removed some of the metal shot from the parts and could be seen at the bottom of the beakers. The parts dried well when compressed air was used at room temperature to blow off any excess cleaner from them. The parts dried spotty without any visible residue seen on them.

Cleaner	Observation
Polyspray Jet 790 XS	Iron shot on bottom of beaker. Parts dried well but were spotty. No visual residue on the parts. Tops were light in color like before they were cleaned.
Daraclean 282 GF	Iron shot on bottom of beaker. Parts dried well but were spotty. No visual residue on the parts. Tops were light in color like before they were cleaned. Cleaner foamed.

**Summary:**

<b>Substrates:</b>	Steel				
<b>Contaminants:</b>	Metal fines				
<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
US Polychem Corporation	Polyspray Jet 790 XS	5		<input checked="" type="checkbox"/>	
Magnaflux	Daraclean 282 GF	5		<input checked="" type="checkbox"/>	

**Conclusion:** The two products removed iron shot from the parts. They parts will be sent or brought to the customer to have them copper sulfated.