CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2008

DateRun: 10/06/2008

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:

Substrates:	Steel				
Contaminants:	Metal fines				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
US Polychem Corporation	Polyspray Jet 790 XS	5	0.00	☑	
Magnaflux	Daraclean 282 GF	5	0.00	☑	

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.