CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2008
DateRun:	07/15/2008
Experimenters:	Jason Marshall, Heidi Wilcox, Shweta Bansal
ClientType:	Tool Manufacturer
ProjectNumber:	Project #1
Substrates:	Steel
PartType:	Part
Contaminants:	Buffing/Polishing Compounds
Cleaning Methods:	Ultrasonics
Analytical Methods:	Visual
Purpose:	To evaluate selected cleaner on parts contaminated with buffing compound.
Experimental Procedure:	Five products were diluted to 3% using DI water in a 1510 Branson 40 kHz ultrasonic tank and heated to 130 F. The products were degassed for five minutes. A set of three soiled steel parts coated with buffing compound were immersed into the ultrasonic tank and cleaned for 5 minutes. Following cleaning, coupons were observed for cleanliness without a rinsing. A second set of parts were cleaned at 160 F.
Results:	All parts cleaned were equally cleaned after five minutes of cleaning at both temperatures. Some water spots were visible on all parts, but no buffing compound residue remained.

Summary:

Substrates:	Steel				
Contaminants:	Buffing/Polishing Compounds				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
US Polychem Corporation	Polyspray Jet 790 XS	3	0.00	☑	
BCS Company	Green Spray 400	3	0.00	☑	
Magnaflux	Daraclean 282 GF	3	0.00	☑	
Magnaflux	Daraclean KX 49	3	0.00	☑	
Matchless Metal Polish Company	Buffclean 125 L	3	0.00	☑	

Conclusion: Any of the five products could be used successfully to remove the buffing compound from the steel parts using ultrasonic cleaning.