

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2008
DateRun: 07/16/2008
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		<input checked="" type="checkbox"/>	
BCS Company		Green Spray 400	3		<input checked="" type="checkbox"/>	
Magnaflux		Daraclean 282 GF	3		<input checked="" type="checkbox"/>	
Magnaflux		Daraclean KX 49	3		<input checked="" type="checkbox"/>	
Matchless Metal Polish Company		Buffclean 125 L	3		<input checked="" type="checkbox"/>	

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