

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1995
 DateRun: 03/20/1995
 Experimenters: Donald Garlotta
 ClientType: Electrical Manufacturer
 ProjectNumber: Project #1
 Substrates: Brass
 PartType: Part
 Contaminants: Cutting/Tapping Fluids, Lubricating/Lapping Oils, Fingerprints, Oil
 Cleaning Methods: Low Pressure Spray
 Analytical Methods: Goniometry
 Purpose: To clean 3 brass conical connectors

Experimental Procedure: After the cleaning trial was performed, the parts were subject to contact angle goniometry. Their contact angle was compared to the contact angle of several dirty parts. Twenty-three readings were taken of the clean parts.

Results: T&D Finishing Co. TD-110
 An average value of 45.043 + 7.081 degrees. Fourteen readings were taken of the dirty parts with an average value of 58.357+ 8.776 degrees.
 Valtech Corp. Valtron SP2275
 After the parts were subjected to the cleaning trial, they were then subjected to a comparative analysis to dirty parts, using contact angle goniometry. Fourteen readings of the dirty parts were taken, and they had an average contact angle of 58.357 + 8.776 degrees. Twenty-nine readings of the ultrasonically cleaned parts were taken, and they had an average contact angle of 70.828 + 8.414 degrees. This value is unexpectedly higher than that of the dirty parts, suggesting that the clean parts are not as clean as the dirty parts.

Summary:

Substrates:	Brass				
Contaminants:	Cutting/Tapping Fluids, Lubricating/Lapping Oils, Fingerprints, Oil				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Valtech Corporation	Valtron SP 2275	5	0.00	<input type="checkbox"/>	
T & D Finishing Company	TD 110	4	0.00	<input type="checkbox"/>	

Conclusion: