CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2004
DateRun:	11/11/2004
Experimenters:	Jason Marshall
ClientType:	Manufacturers of Precision Parts and Assemblies
ProjectNumber:	Project #1
Substrates:	Plastic
PartType:	Part
Contaminants:	Lubricating/Lapping Oils
Cleaning Methods:	Low Pressure Spray
Analytical Methods:	Visual
Purpose:	To evaluate alternative contact cleaners on supplied parts
Experimental Procedure:	All five products from the previous trial were used at full strength at room temperature. Again, three of the five products were supplied to the lab in spray cans. Two products had to be applied using a manual spray pump. (The Ak225 does come in a spray can but was not available at the time of testing). One part was sprayed with each contact cleaner for one minute and allowed to air dry. The part sprayed with the Gemtek product was briefly sprayed with compressed air. Parts were visually inspected and sent back to the client for inspection. Contaminant: Fuch's Lubricants Renocut 6515 NC (mineral oil, vegetable oil)

Results:

Product	Observations	Part Description
Micro X (current)	Residue on flat end of part	Black nozzle tip
Heavy Duty Degreaser C	Some residue on flat end of part, less than Micro X. Adjustable flow rate on dispenser	Black nozzle tip
Flux Remover C	Oil on smaller end, more than Micro X. Two parts, one trapped in side of the other; after re-cleaning the inside, there was no visible signs of oil. Adjustable flow rate on dispenser	Brown larger round/ cylinder part
SC Evaporative Electronic Cleaner	with air blow off, no visible signs of oil	Brown larger round/ cylinder part
AK 225	No visible signs of oil	Brown small round/ cylinder part Brown small cylinder part

Summary:

Substrates:	Plastic

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Contaminants:	Lubricating/Lapping Oils				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
LPS Laboratories	Micro X	100	0.00	☑	
Micro Care	Heavy Duty Degreaser C	100	0.00	☑	
Micro Care	Flux Remover C	100	0.00	☑	
Gemtek Products	SC Evaporartive Electronics Cleaner	100	0.00	☑	
AGA Chemical	AK 225	100	0.00	☑	

Conclusion: Parts have been sent to client for inspection. Follow up cleaning with aqueous products will be conducted next.