

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004
 DateRun: 11/12/2004
 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		<input checked="" type="checkbox"/>	
Micro Care	Heavy Duty Degreaser C	100		<input checked="" type="checkbox"/>	
Micro Care	Flux Remover C	100		<input checked="" type="checkbox"/>	
Gemtek Products	SC Evaporative Electronics Cleaner	100		<input checked="" type="checkbox"/>	
AGA Chemical	AK 225	100		<input checked="" type="checkbox"/>	

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