

# 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<br>Brown small cylinder part |

|          |                            |
|----------|----------------------------|
| Summary: | <b>Substrates:</b> Plastic |
|----------|----------------------------|

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|                      |                                    |                          |                    |                                     |                      |
|----------------------|------------------------------------|--------------------------|--------------------|-------------------------------------|----------------------|
| <b>Contaminants:</b> |                                    | Lubricating/Lapping Oils |                    |                                     |                      |
| <b>Company Name:</b> | <b>Product Name:</b>               | <b>Conc.:</b>            | <b>Efficiency:</b> | <b>Effective:</b>                   | <b>Observations:</b> |
| 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.