

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1995
 DateRun: 03/30/1995
 Experimenters: Donald Garlotta
 ClientType: Biomedical Device Manufacturer
 ProjectNumber: Project #1
 Substrates: Plastic
 PartType: Part
 Contaminants: Cutting/Tapping Fluids, Lubricating/Lapping Oils, Oil
 Cleaning Methods: Ultrasonics
 Analytical Methods: Black light, Visual
 Purpose: To test out the Valtron SP 2275 Neutral cleaner

Experimental Procedure: The silicon oil was smeared on the five polycarbonate parts and allowed to age for two hours. Cleaning was performed in a Crest Ultrasonic Unit for 15 minutes set at 140 F. The parts were rinsed in a tap water bath and then a DI water bath. Both rinses were for 5 minutes at 140 F. The parts were then dried under air knives for two minutes and then under and IR lamp for 30 minutes. The parts were then analyzed under a black light for fluorescence and visually inspected for any water spotting.

ACTUAL OPERATING CONDITIONS:

	time (min)	Temp (F)
Ultrasonics	15	144
#1 RINSE/TAP H ₂ O	5	146
#2 RINSE/DEIONIZED H ₂ O	5	142
DRY	2	room
DRY	30	105

Polycarbonate blood filters
 Silicon Oil (WD40), fingerprints

Results: Visually, the parts were very clean. Upon inspection under black light, part #5 had two areas of oil on it. No water spotting was evident on the parts.

Summary:

Substrates:	Plastic				
Contaminants:	Cutting/Tapping Fluids, Lubricating/Lapping Oils, Oil				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Valtech Corporation	Valtron SP 2275	5		<input checked="" type="checkbox"/>	

Conclusion: The Valtron cleaners was basically successful. A longer cleaning time and additional rinses should solve the problem of the oil remaining on part #5.