

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2006
 DateRun: 11/07/2006
 Experimenters: Jason Marshall, Heidi Wilcox
 ClientType: Metal Finishing
 ProjectNumber: Project #1
 Substrates: Plastic
 PartType: Part
 Contaminants: Buffing/Polishing Compounds
 Cleaning Methods: Immersion/Soak
 Analytical Methods: Visual

Purpose: To evaluate selected cleaners on supplied parts using immersion cleaning followed by spray cleaning.

Experimental Procedure: Two cleaning products were diluted to 5% using hot tap water (130 F) in 1000 ml beakers. Supplied parts that were received already contaminated were cleaned in the immersion solution for two minutes and then cleaned in the spray system for one minute. Two types of parts were cleaned in each solution. Following cleaning in the low-pressure spray system parts were rinsed for 15 seconds in a tap water bath at 120 F and dried using dry compressed air at room temperature. Parts were analyzed visually. Cleaned parts were packaged and sent to the client.

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|----------|---------------|-----------------|---|
| Results: | Cleaner | Part | Observation |
| | Polyspray Jet | Angel with harp | Removal of contaminant evident in cleaning solution |
| | | Santa Clause | |
| | Detergent 8 | Angel with harp | Removal of contaminant evident in cleaning solution |
| | | Mrs. Clause | |

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|----------|-------------------------|--|-----------------------------|---------------|--------------------|-------------------------------------|
| Summary: | Substrates: | | Plastic | | | |
| | Contaminants: | | Buffing/Polishing Compounds | | | |
| | Company Name: | | Product Name: | Conc.: | Efficiency: | Effective: |
| | US Polychem Corporation | | Polyspray Jet 790 XS | 5 | | <input checked="" type="checkbox"/> |
| | Alconox Inc | | Detergent 8 | 5 | | <input checked="" type="checkbox"/> |

Conclusion: Both solutions at the lower concentration appeared to remove the buffing compound using 2 minutes of immersion and 1 minute of spray cleaning. Parts have been sent back for client inspection.