

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2006

DateRun: 12/08/2006

Experimenters: Jason Marshall

ClientType: Metal Working

ProjectNumber: Project #1

Substrates: Brass

PartType: Part

Contaminants: Buffing/Polishing Compounds, Oil

Cleaning Methods: Ultrasonics

Analytical Methods: Visual

Purpose: To evaluate selected product for cleaning both buffing compound and oil using supplied parts.

Experimental Procedure: One product was selected based on the results of the previous testing. The product was diluted to 10% in a 600 ml beaker using DI water. The dilution was heated to 150 F while being immersed in a water bath. The solution also was degassed for at least 5 minutes using a Branson 3510 ultrasonic unit operating at 40 kHz. Several parts were cleaned in the solution, rinsed in tap water at 120 for 15 seconds and dried using dry compressed air at room temperature for 30 seconds. Observations were made on the level of cleanliness.

Results: The parts appeared to be free of buffing compound and oil after cleaning for 10 minutes using ultrasonic cleaning.

Summary:

|                         |                                  |               |                    |                                     |                      |
|-------------------------|----------------------------------|---------------|--------------------|-------------------------------------|----------------------|
| <b>Substrates:</b>      | Brass                            |               |                    |                                     |                      |
| <b>Contaminants:</b>    | Buffing/Polishing Compounds, Oil |               |                    |                                     |                      |
| <b>Company Name:</b>    | <b>Product Name:</b>             | <b>Conc.:</b> | <b>Efficiency:</b> | <b>Effective:</b>                   | <b>Observations:</b> |
| US Polychem Corporation | Polyspray Jet 790 XS             | 10            |                    | <input checked="" type="checkbox"/> |                      |

Conclusion: The US Polychemical Polyspray Jet 790 XS worked well on both the buffing compound and the oil on the supplied parts.