

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1998  
 DateRun: 11/02/1998  
 Experimenters: Jason Marshall  
 ClientType: Name Plate Mfg-Etching  
 ProjectNumber: Project #1  
 Substrates: Aluminum  
 PartType: Part  
 Contaminants: Abrasive, Paints, Dirt, Soaps  
 Cleaning Methods: Low Pressure Spray  
 Analytical Methods: Visual  
 Purpose: Pilot testing of spray wash system.

Experimental Procedure: All of the samples were clipped to a tray and inserted into a Miele Automatic G7735 Spay Wash Unit. The cleaning chemistry was heated to 130 F on hot plates. The solution was then poured into the unit. Cleaning trials were conducted at a variety of times, 30 seconds, 1 and 2 minutes. At the end of the cleaning, plates were examined for acceptable cleaning and paint conditions.

SUBSTRATE MATERIAL: Metal Plates Supplied from Client  
 CONTAMINANTS: Dirty cleaning solution-D-Greeze 500 w/ residual paint chips and pumice sludge

Results: There was a slight residue remaining on the coupons. Some of the paints were easily scratched off while others were more acceptable. The biggest problem was the residue left on the samples.

Summary:

|                           |                               |               |                    |                                     |                      |
|---------------------------|-------------------------------|---------------|--------------------|-------------------------------------|----------------------|
| <b>Substrates:</b>        | Aluminum                      |               |                    |                                     |                      |
| <b>Contaminants:</b>      | Abrasive, Paints, Dirt, Soaps |               |                    |                                     |                      |
| <b>Company Name:</b>      | <b>Product Name:</b>          | <b>Conc.:</b> | <b>Efficiency:</b> | <b>Effective:</b>                   | <b>Observations:</b> |
| AG Environmental Products | Soy Gold 2000                 | 100           |                    | <input checked="" type="checkbox"/> |                      |

Conclusion: Soy Gold 2000 showed excellent removal of the D-Greeze 500 contaminant solution at the 1 and 2 minute intervals. The one remaining issue to deal with would be the removal of the film left on the coupons. Increased rinse water spray pressure could help to reduce or eliminate the residue. Consultation with the vendor may yield a less aggressive cleaner that will not leave the undesired residue.