

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2008

DateRun: 04/11/2008

Experimenters: Ephraim Massawe

ClientType: Lab

ProjectNumber: Project #1

Substrates: Aluminum

PartType: Coupon

Contaminants: Buffing/Polishing Compounds

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric

Purpose: Removing buffing compound from the surface of aluminum

Experimental Procedure: Basic cleaning performance testing was conducted using ASTM G122 as the bases for cleaning. Products were based on the compatibility of substrate and removal of foreign substance. Used 5% concentration and heated the samples at 135F. The coupons were immersed in a product for 5 minutes, rinsed for 30 seconds in tap water at 120F and dried in 30 seconds.

| Cleaner | Initial wt | Final wt | % Removed |
|-------------------------|------------|----------|-----------|
| ozzy sw-3 | | | |
| | 0.4427 | 0.0221 | 95.01 |
| | 0.2433 | 0.0276 | 88.66 |
| | 0.3277 | 0.0382 | 88.34 |
| sea wash blue | | | |
| | 0.4979 | 0.0092 | 98.15 |
| | 0.4785 | 0.0165 | 96.55 |
| | 0.3594 | 0.0184 | 94.88 |
| ozzy sw-1 | | | |
| | 0.3148 | 0.0576 | 81.70 |
| | 0.4314 | 0.0521 | 87.92 |
| | 0.3486 | 0.0475 | 86.37 |
| nab 9000 | | | |
| | 0.5169 | 0.0864 | 83.28 |
| | 0.3653 | 0.0444 | 87.85 |
| | 0.4019 | 0.0272 | 93.23 |
| california parts washer | | | |
| | 0.4907 | 0.0051 | 98.96 |
| | 0.7297 | 0.0049 | 99.33 |
| | 0.4705 | 0.0064 | 98.64 |
| valtron sp 2275 | | | |
| | 0.3918 | 0.0847 | 78.38 |
| | 0.3723 | 0.0998 | 73.19 |
| | 0.6877 | 0.0554 | 91.94 |

| | | | | | | |
|----------|--------------------------|-----------------------------|---------------|--------------------|--------------------------|----------------------|
| Summary: | Substrates: | Aluminum | | | | |
| | Contaminants: | Buffing/Polishing Compounds | | | | |
| | Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| | Innovative Organics Inc | Amberclean L 12 | 5 | 25.88 | <input type="checkbox"/> | |
| | Chemical Technologies | Green Thunder | 5 | 76.76 | <input type="checkbox"/> | |
| | Alconox Inc | Detergent 8 | 5 | 82.28 | <input type="checkbox"/> | |
| | ITW Fluid Products Group | AccuClean | 5 | 52.98 | <input type="checkbox"/> | |

Conclusion: None of the products tested surpassed the passing removal rate of 85% or higher.