

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2008
 DateRun: 03/18/2008
 Experimenters: Jason Marshall
 ClientType: Aluminum Anodizing Job Shop
 ProjectNumber: Project #2
 Substrates: Aluminum
 PartType: Part
 Contaminants: Coatings
 Cleaning Methods: Manual Wipe
 Analytical Methods: Visual

Purpose: To evaluate top two products for spot cleaning on supplied parts using swabs

Experimental Procedure: The top two products, Shopmaster RC and SC Actisolv, from the previous trials were used at room temperature. Three supplied dirty aluminum coupons coated with the Stan Chem Inc Red Stop Off (78-93-3, 108-88-3) were wiped with cotton tip swabs until the outer portion of the coupons were free of lacquer. The number of swabs used were noted and the time to clean was recorded. Parts were not rinsed or dried.

Results: Both products were able to remove the Stop Off from the coupons using the supplied swabs.

| Cleaner | Observations | #Swabs | Time | Coupon |
|---------------|----------------------------|--------|-------|--------|
| Shopmaster RC | Red visible on swabs early | 3 wet | 8:34 | 1 |
| | | 4 dry | | |
| | | 3 wet | 8:53 | 2 |
| | | 4 dry | | |
| | | 3 wet | 9:32 | 3 |
| | | 4 dry | | |
| SC Actisolv | 2 sides clean after | 6 wet | 15:16 | 7 |
| | 12 minutes - other 2 | 6 dry | | |
| | still heavily soiled | 6 wet | 14:29 | 5 |
| | 3 sides clean after | 6 dry | | |
| | 12 minutes | | | |
| | | 5 wet | 13:34 | 6 |
| | | 6 dry | | |

Summary:

| | | | | | |
|-----------------------|----------------------------|---------------|--------------------|-------------------------------------|-----------------------------------|
| Substrates: | | Aluminum | | | |
| Contaminants: | | Coatings | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| Buckeye International | Shopmaster RC | 100 | | <input checked="" type="checkbox"/> | Average of 8:59 minutes to clean |
| Gemtek Products | SC Actisolv Safety Solvent | 100 | | <input checked="" type="checkbox"/> | Average of 14:26 minutes to clean |

Conclusion: The Shopmaster RC appears to be the more effective spot cleaner, requiring less time and fewer swabs to remove the coating from the coupons.