

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002
 DateRun: 04/28/2002
 Experimenters: Jason Marshall
 ClientType: Metal
 ProjectNumber: Project #1
 Substrates: Aluminum, Stainless Steel
 PartType: Part
 Contaminants: Adhesive, Coatings
 Cleaning Methods: Immersion/Soak
 Analytical Methods: Visual
 Purpose: To evaluate successful cleaners on supplied part
 Experimental Procedure: The one successful product from the previous trial (International Products Surface Cleanse 930) was diluted to 10% using DI water in a 2000 ml beaker and heated to 130 F on a hot plate. A portion of the supplied part was immersed into the solution and soaked for 1 hour. The part was observed at 5, 10, 20, 30 and 60 minutes to determine the effectiveness of the cleaning. At each interval, the part was pulled from the solution and wiped with a paper towel.
 Contaminants: Bob Smith Industries Insta-Cure adhesive (7085-85-0), Insta-Set (64742-89-8, 99-97-8) and a water soluble sealant.

Results: The cleaner was successful in dissolving the green water soluble sealant. After the hour of soaking the metal foil was easily peeled off of the metal ring. Observations are recorded in the table below.

Table 1. Cleaning Interval Observations

| Time (min) | Observations |
|------------|---|
| 5 | Starting to dissolve the green sealant |
| 10 | Green wipes off easily |
| 20 | The cleaning solution started turning green |
| 30 | Most of the green sealant was removed |
| 60 | Peel metal off easily, metal under film looked free of adhesive |

Summary:

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|------------------------------------|--|---------------------------|--------------------|-------------------------------------|----------------------|
| Substrates: | | Aluminum, Stainless Steel | | | |
| Contaminants: | | Adhesive, Coatings | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| International Products Corporation | Surface Cleanse Concentrated Neutral 930 | 10 | 0.00 | <input checked="" type="checkbox"/> | |

Conclusion: Upon further review, it appears that Surface Cleanse 930 may be successful in separating the metal foil from the ring.