

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2023

DateRun: 03/09/2023

Experimenters: Alexander Symko

ClientType: Adhesive Manufacturer

ProjectNumber: Project #3

Substrates: Stainless Steel

PartType: Part

Contaminants: Adhesive

Cleaning Methods: Manual Wipe

Analytical Methods: Visual

Purpose: Pilot testing of selected solvents for removal of adhesives.

Experimental Procedure: Sec-butyl acetate and tert-butyl acetate were supplied to workers at Ideal Tape to test on the line during production using manual wipe techniques.

Results: Results from the operator trials were mixed. The alcohols did a suitable job removing small amounts of adhesive contamination, but in situations where larger amounts of adhesive had built up on rolls, it was unable to remove it. In these cases, it also seemed to smear the adhesive rather than dissolve and lift it off of the substrate.

Summary:

| Substrates: | | Stainless Steel | | | |
|---------------------------|-------------------------|-----------------|-------------|-------------------------------------|--|
| Contaminants: | | Adhesive | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| Lyondell Chemical Company | Tertiary butyl acetate | 5 % | 40.49 | <input type="checkbox"/> | Contaminant: Phenolics - 62.895% efficiency Acrylic - 10.34% efficiency Silicon - 48.2% efficiency |
| Lyondell Chemical Company | Secondary Butyl Acetate | 5% | 64.33 | <input checked="" type="checkbox"/> | Contaminant: Phenolics - 88.84% effective Acrylic - 8.34% effective Silicon - 95.81% effective |

Conclusion: Further analysis and testing are necessary to determine what solvents or solvent blends should be tested next.