

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 05/05/2003

Experimenters: Jason Marshall

ClientType: Metal

ProjectNumber: Project #1

Substrates: Aluminum, Carbon Steel, Steel

PartType: Coupon

Contaminants: Coatings, Chemical

Cleaning Methods: Mechanical Agitation

Analytical Methods: None

Purpose: Information request.

Experimental Procedure: The lab's database was used to obtain a list of products that could be used to eliminate zinc phosphate and soap residue on parts.

Results: Searching the database for similar metal working processes, the following products were found successful in removing coatings and lubricants from wire surfaces that were used in saw blade manufacturing.

Contaminant Information

Coating - Castrol Industrial, Inc Rustilo DW 924 HF (64742-53-6, 61790-48-5, 64742-47-8); Theis metal Coating - Castrol Rustilo DWX 30 Rust Preventatives (64742-82-1; 61790-48-5; 112-34-5)

Coating - Rust Preventatives, Castrol Industrial, Inc Rustilo DW 924 HF (64742-53-6, 61790-48-5, 64742-47-8)

Coating - Rust Preventatives, Castrol Rustilo DWX 30 (64742-82-1, 61790-48-5, 112-34-5)

Coating - Rust Preventatives, Houghton Rust Veto C3

Lubricant - ITW Fluid Products Power Stamp II

Lubricant - ITW Fluid Products Power Stamp II diluted 5:1 with water

Successful Products

| Company | Product | Classification |
|------------------------|-----------------------------|----------------------|
| Abatement Technology | Bio Might 100 | Alkaline Aqueous |
| DA Stuart Company | Dasco Kleen 3250 | Alkaline Aqueous |
| Ensolve Biosystems Inc | Grease Feast Plus | Enzymatic/ Microbial |
| Gemtek Products | SC Aircraft & Metal Cleaner | Alkaline Aqueous |
| Heatbath Corporation | Multi-Kleen 1568 | Alkaline Aqueous |
| Houghton International | Certa Kleen 5387 | Alkaline Aqueous |
| Oakite Products | Inproclean 3800 | Alkaline Aqueous |
| Safe CleanUp | Super Neutral | Enzymatic/ Microbial |
| Today & Beyond | Beyond 2001 | Alkaline Aqueous |
| Warren Chemical Comp | Sea Wash 700 New | Neutral Aqueous |

Results of search for white powder removal:

Chemical - White powders (SiO₂, NHCl, (NH₄)₂SiF₆, or NH₄HF₂)

| Successful Products | | |
|---------------------|--------------------|----------------|
| Company | Product | Classification |
| Armex | Sodium Bicarbonate | Blasting |

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| | | |
|-------------------------|------------------|----------------------|
| Buckeye International | Shopmaster | Alkaline Aqueous |
| Buckeye International | Shopmaster LPH | Alkaline Aqueous |
| Dynamold Solvents Inc | DS 108 | Petroleum Distillate |
| Innovative Organics Inc | Amberclean 527 L | Alkaline Aqueous |
| MacDermid | ND LF Supreme | Alkaline Aqueous |
| Today & Beyond | Beyond 2001 | Alkaline Aqueous |

Summary:

| | | | | | |
|----------------------|-------------------------------|---------------|--------------------|--------------------------|----------------------|
| Substrates: | Aluminum, Carbon Steel, Steel | | | | |
| Contaminants: | Coatings, Chemical | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| No Specific Vendor | Supplied alternatives list | | | <input type="checkbox"/> | |

Conclusion:

Cleaning projects vary from case-to-case. To obtain more detailed information about any of the listed trials, have the SCL # ready when contacting the lab at (978)934-3133.