

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1998

DateRun: 02/25/1998

Experimenters: Jason Marshall

ClientType: TUR Agency

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Greases

Cleaning Methods:

Analytical Methods:

Purpose: Effective grease cleaning stainless steel trials

Experimental Procedure: QUESTION #: 1

SUBSTRATE MATERIAL: Stainless steel

QUESTION ASKED: What are some cleaners that can be used to remove heavy grease from stainless steel?

Results: RESPONSE/ANSWER: In 1998, the Massachusetts Toxics Use Reduction Institute (TURI) will publish the results of the tests conducted at the Institutes Surface Cleaning Laboratory (SCL) in a searchable database/spreadsheet format. This should make alternative cleaner selection faster and easier. Here are the results of your query, based on the information supplied:

| SCL # | Substrate | Contaminant | Mechanism | Cleaner |
|-------------|-----------|-------------|-----------|----------------|
| 97-538-07-3 | SS | Grease | Immersion | Ecolink |
| 97-538-07-3 | SS | Grease | Immersion | Oakite |
| 97-538-07-3 | SS | Grease | Immersion | Solvent Kleene |
| 97-548-04-2 | SS | Grease | Spray | Alconox |

Summary:

| Substrates: | | Stainless Steel | | | | |
|---------------------------|--|--|--------|-------------|--------------------------|---------------|
| Contaminants: | | Greases | | | | |
| Company Name: | | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| AG Environmental Products | | Soy Gold 1000 | 0 | 0.00 | <input type="checkbox"/> | |
| AG Environmental Products | | Soy Gold 2000 | 0 | 0.00 | <input type="checkbox"/> | |
| Warren Chemical Company | | Sea Wash Neutral | 0 | 0.00 | <input type="checkbox"/> | |
| Simple Green | | Concentrated Industrial Strength Cleaner and Degreaser | 0 | 0.00 | <input type="checkbox"/> | |
| Transene Company, Inc. | | D Greeze 500 LO | 0 | 0.00 | <input type="checkbox"/> | |
| Kyzen Corporation | | Ionox FCR (For Comparison Only) | 0 | 0.00 | <input type="checkbox"/> | |
| EcoLink | | Safe Strip | 0 | 0.00 | <input type="checkbox"/> | |
| Finger Lakes Chemical | | FLSC-12 Resineater Sample | 0 | 0.00 | <input type="checkbox"/> | |
| Gemtek Products | | SC 1000 Aqueous Cleaner Concentrate | 0 | 0.00 | <input type="checkbox"/> | |
| US Polychem Corporation | | Polyspray Jet 790 XS | 0 | 0.00 | <input type="checkbox"/> | |
| US Polychem Corporation | | Polychem A 2000 XS | 0 | 0.00 | <input type="checkbox"/> | |
| US Polychem Corporation | | Polychem DEOX 007 | 0 | 0.00 | <input type="checkbox"/> | |
| Sky Products Company Inc | | Cleaner #10 | 0 | 0.00 | <input type="checkbox"/> | |
| Buckeye International | | Shopmaster | 0 | 0.00 | <input type="checkbox"/> | |
| AW Chesterton | | 803 Industrial & Marine Solvent II | 0 | 0.00 | <input type="checkbox"/> | |
| AW Chesterton | | KPC 820 N | 0 | 0.00 | <input type="checkbox"/> | |

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|--------------------------------|------------------------------------|---|------|--------------------------|--|
| Brulin Corporation | Formula 815 GD | 0 | 0.00 | <input type="checkbox"/> | |
| Brulin Corporation | Brulin 63 G | 0 | 0.00 | <input type="checkbox"/> | |
| Brulin Corporation | Compliance | 0 | 0.00 | <input type="checkbox"/> | |
| Alconox Inc | Alcojet | 0 | 0.00 | <input type="checkbox"/> | |
| Alconox Inc | Citranox | 0 | 0.00 | <input type="checkbox"/> | |
| Magnaflux | Daraclean 283 | 0 | 0.00 | <input type="checkbox"/> | |
| Magnaflux | Daraclean 282 GF | 0 | 0.00 | <input type="checkbox"/> | |
| Magnaflux | Daraclean 282 | 0 | 0.00 | <input type="checkbox"/> | |
| Magnaflux | Daraclean 235 | 0 | 0.00 | <input type="checkbox"/> | |
| Magnaflux | Daraclean 212 | 0 | 0.00 | <input type="checkbox"/> | |
| Calgon Corporation | AK 6215 | 0 | 0.00 | <input type="checkbox"/> | |
| Oakite Products | Fisan Versaclean | 0 | 0.00 | <input type="checkbox"/> | |
| Oakite Products | Inproclean 1300 | 0 | 0.00 | <input type="checkbox"/> | |
| Oakite Products | Inproclean 2500 | 0 | 0.00 | <input type="checkbox"/> | |
| Oakite Products | Inproclean 3800 | 0 | 0.00 | <input type="checkbox"/> | |
| Oakite Products | Inproclean 4000 T | 0 | 0.00 | <input type="checkbox"/> | |
| Bio Chem Systems | Bio T Max | 0 | 0.00 | <input type="checkbox"/> | |
| Bio Chem Systems | Solsafe 245 | 0 | 0.00 | <input type="checkbox"/> | |
| Emkay Chemical Company | Safety Wash | 0 | 0.00 | <input type="checkbox"/> | |
| Tarksol Inc | Tarksol HTF 85 B | 0 | 0.00 | <input type="checkbox"/> | |
| Magnaflux | Daraclean 232 | 0 | 0.00 | <input type="checkbox"/> | |
| MacDermid Industrial Products | ND 17 | 0 | 0.00 | <input type="checkbox"/> | |
| MacDermid Industrial Products | ND Supreme | 0 | 0.00 | <input type="checkbox"/> | |
| Carroll Company | Blue Gold Heavy Industrial Cleaner | 0 | 0.00 | <input type="checkbox"/> | |
| Valtech Corporation | Valtron SP 2275 | 0 | 0.00 | <input type="checkbox"/> | |
| Magnaflux | Daraclean 211 | 0 | 0.00 | <input type="checkbox"/> | |
| Calgon Corporation | Geo Guard 2215 | 0 | 0.00 | <input type="checkbox"/> | |
| Man Gill Chemical Company | Gillite 0650 CI | 0 | 0.00 | <input type="checkbox"/> | |
| LPS Laboratories | Precision Clean Concentrate | 0 | 0.00 | <input type="checkbox"/> | |
| Tarksol Inc | Tarksol HTF-50 | 0 | 0.00 | <input type="checkbox"/> | |
| Church & Dwight Co Inc. | Armakleen E 2002 | 0 | 0.00 | <input type="checkbox"/> | |
| Oakite Products | Inproclean 2000 | 0 | 0.00 | <input type="checkbox"/> | |
| Tarksol Inc | Tarksol HTF 321 | 0 | 0.00 | <input type="checkbox"/> | |
| Tarksol Inc | Tarksol HTF 60 | 0 | 0.00 | <input type="checkbox"/> | |
| Tarksol Inc | Tarksol HTF 10 B | 0 | 0.00 | <input type="checkbox"/> | |
| Calgon Corporation | Geo Guard 3015 | 0 | 0.00 | <input type="checkbox"/> | |
| Cleaning Systems | Release | 0 | 0.00 | <input type="checkbox"/> | |
| Calgon Corporation | Geo Guard 5210 | 0 | 0.00 | <input type="checkbox"/> | |
| Matchless Metal Polish Company | MC 580 | 0 | 0.00 | <input type="checkbox"/> | |
| Matchless Metal Polish Company | MC 132 | 0 | 0.00 | <input type="checkbox"/> | |
| Novamax Technologies Inc | Spectrum BCR | 0 | 0.00 | <input type="checkbox"/> | |
| CSA Inc | Bio Safe 1023 | 0 | 0.00 | <input type="checkbox"/> | |
| CSA Inc | Bio Safe 1024 | 0 | 0.00 | <input type="checkbox"/> | |
| Dow Chemical Company | XUS 40571 Development Solvent | 0 | 0.00 | <input type="checkbox"/> | |
| US Polychem Corporation | Product 69 MC | 0 | 0.00 | <input type="checkbox"/> | |

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|--|------------------------------|---|------|--------------------------|--|
| Inland Technologies Inc | EP 921 | 0 | 0.00 | <input type="checkbox"/> | |
| EcoLink | 2005 | 0 | 0.00 | <input type="checkbox"/> | |
| Delta Omega Technologies Ltd | DOT 111/113 | 0 | 0.00 | <input type="checkbox"/> | |
| Eastern Color and Chemical Company | Ecobrite Cleaner AK | 0 | 0.00 | <input type="checkbox"/> | |
| Mirachem Corporation | Mirachem 500 | 0 | 0.00 | <input type="checkbox"/> | |
| Safety Kleen Corporation | Safety Kleen Aqueous Cleaner | 0 | 0.00 | <input type="checkbox"/> | |
| Twin Rivers Technologies | Methyl Ester 1618 | 0 | 0.00 | <input type="checkbox"/> | |
| Armex Cleaning and Coating Removal Systems | Sodium Bicarbonate | 0 | 0.00 | <input type="checkbox"/> | |
| Ardrox Inc | 6333 | 0 | 0.00 | <input type="checkbox"/> | |
| Finger Lakes Chemical | 1-1-02 | 0 | 0.00 | <input type="checkbox"/> | |
| Loctite Corporation | 7360 | 0 | 0.00 | <input type="checkbox"/> | |
| Occidental Chemical Corporation | OX SOL 100 | 0 | 0.00 | <input type="checkbox"/> | |
| Dow Chemical Company | PnB Glycol Ether | 0 | 0.00 | <input type="checkbox"/> | |
| Water | Water | 0 | 0.00 | <input type="checkbox"/> | |
| Water | DI Water | 0 | 0.00 | <input type="checkbox"/> | |
| Water | Steam | 0 | 0.00 | <input type="checkbox"/> | |
| S & S Industrial Services | Spray Clean 400 T | 0 | 0.00 | <input type="checkbox"/> | |
| Accurate Manufactured Products | Safety Layout Blue Remover | 0 | 0.00 | <input type="checkbox"/> | |
| Safe CleanUp Solutions | Super Neutral | 0 | 0.00 | <input type="checkbox"/> | |
| SWR Corporation | SWR One | 0 | 0.00 | <input type="checkbox"/> | |
| Permatex Industrial Corporation | Natural Blue | 0 | 0.00 | <input type="checkbox"/> | |

Conclusion:

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