

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2000

DateRun: 09/18/2000

Experimenters: Jason Marshall

ClientType: General

ProjectNumber: Project #1

Substrates: Aluminum

PartType: Coupon

Contaminants:

Cleaning Methods:

Analytical Methods:

Purpose: Information request

Experimental Procedure: SUBSTRATE MATERIAL: Aluminum 3003  
REQUEST: Please send us information regarding the Al 3003 surface cleaning possibilities, the cleaning is done prior the laser weld process.

Results: RESPONSE: The laboratory conducted a search for cleaning products that could be used safely on aluminum substrate. Additional criteria was added to the search to yield a smaller number of alternative cleaners. The parameters of the search were: aluminum substrate; oil, grease or lubricant contaminants; immersion or ultrasonic agitation; products currently in Surface Cleaning Laboratory. Table 1 lists the databases used.

Table 1. SCL Database

All Tests Database SECT: Laboratory tested products for specific client needs  
Industrial Cleaning Survey Directory of Vendors ICSDOV: Vendor recommended products  
Non Client Testing Database NCT: Laboratory tested products for general data

The three databases were queried, and the products appearing in more than one were selected and are listed in Table 2.

Table 2. Selected Cleaners

| Manufacturer         | Products                | SETC | ICSDOV | NCT |
|----------------------|-------------------------|------|--------|-----|
| Heatbath Corporation | Alukleen 36             |      |        |     |
| Today & Beyond       | Beyond 2001             | x    |        |     |
| EnviroSolutions Inc  | Bio T V 50              | x    |        |     |
| Drummond American    | Clout                   | x    |        | x   |
| WR Grace & Co Conn   | Daraclean 200           | x    | x      |     |
| WR Grace & Co Conn   | Daraclean 235           | x    | x      |     |
| WR Grace & Co Conn   | Daraclean 282           | x    | x      |     |
| WR Grace & Co Conn   | Daraclean 282 GF        | x    | x      |     |
| New Pig Corporation  | Degreaser               | x    |        | x   |
| Savogran Company     | Dirtex Prepaint Cleaner |      | x      | x   |
| Bulin Corporation    | 815 GD                  | x    | x      |     |
| Oakite Products Inc  | Inproclean 3800         | x    | x      |     |
| AW Chesterton        | KPC 820 N               | x    | x      |     |
| Mirachem Corporation | Mirachem 500            | x    | x      | x   |
| Heatbath Corporation | Multikleen 1568         | x    | x      | x   |

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|                             |                             |   |   |   |
|-----------------------------|-----------------------------|---|---|---|
| US Polychemical Corp        | Polychem A 2000 XS          | x | x |   |
| US Polychemical Corp        | Polyspray Jet 790 P         | x | x |   |
| US Polychemical Corp        | Polyspray Jet 790 XS        | x | x |   |
| Heatbath Corporation        | Powerwash cleaner BCR       | x | x | x |
| Gemtek Products             | SC 1000                     | x | x |   |
| Gemtek Products             | SC Aircraft & Metal Cleaner | x | x |   |
| Warren Chemical Corporation | Sea Wash 700                | x |   | x |
| EnviroSolutions Inc         | SolSafe 245                 | x | x |   |
| Cleansafe Solutions         | Solution 2000               | x |   | x |
| United Laboratories         | United 450 All Clear        | x | x | x |

Summary:

Conclusion:

Cleaning projects vary from case-to-case. To obtain more detailed information about any of the listed products, or if the search parameters does not meet your specific request, please contact the lab at (978)934-3133.