CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2000

DateRun: 09/17/2000

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
Brulin 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.