CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2016

DateRun: 03/25/2016

Experimenters:

ClientType:

ProjectNumber: Project #1

Substrates: Aluminum

PartType: Coupon

Contaminants: Greases

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric

Purpose: To evaluate the efficiency of various heated drop in solvent replacement in removing Momentive Grease from Aluminum.

Experimental Procedure: Aluminum coupons were weighed to get their initial weights. The bottom third of each coupon was coated in the Momentive Grease. The coupons were re- weighed. The weights were recorded. The coupons were placed in the heated drop-in solvent replacement for 5 minutes. The coupons were removed out of the cleaning solution and placed to dry on a rack for 15 minutes. Then the final weights were taken and recorded.

Results:

Cleaner	Initial wt of cont.	Final wt of cont.	%Cont Removed
Ethyl 408	0.1490	0.1665	-11.74
	0.1595	0.1753	-9.91
	0.1337	0.1378	-3.07
Methyl 408	0.1282	0.1387	-8.19
	0.1091	0.1119	-2.57
	0.0993	0.1035	-4.23
FluoSolv CX	0.1183	0.0445	62.38
	0.1281	0.0573	55.27
	0.1269	0.0048	96.22
FluoSolv NC	0.1303	0.0666	48.89
	0.1399	0.0716	48.82
	0.1249	0.0545	56.37
Honeywell PF	0.1427	0.0751	47.37
	0.1137	0.0479	57.87
	0.1001	0.0520	48.05
Honeywell PF 2A	0.1303	0.0614	52.88
	0.1196	0.0615	48.58
	0.1361	0.0677	50.26
Vertrel Sion	0.2378	0.0371	84.40
	0.1646	0.0523	68.23
	0.2267	0.0438	80.68
Fluosolv CX-500	0.3763	0.3539	5.95
	0.5120	0.4874	4.80
	0.5286	0.5069	4.11
Fluosolv FR-110	0.3497	0.3335	4.63
	0.3472	0.3287	5.33
	0.3840	0.3653	4.87

Summary:

Substrates:	Aluminum
Contaminants:	Greases

Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:

CLEANING LABORATORY EVALUATION SUMMARY

Xf Technologies	Ethyl 408	100	-8.24	☐	
Xf Technologies	Methyl 408	100	-4.99	☐	
NuGeneration Technologies, LLC	FluoSolv CX	100	71.29	☐	
NuGeneration Technologies, LLC	FluoSolv NC 786	100	51.36	☐	
Honeywell	Solstice PF with N2	100	51.09	☐	
Honeywell	Solstice PF-2A with N2	100	50.57	☐	
DuPont	Vertrel Sion	100	77.77	☑	
NuGeneration Technologies, LLC	Fluosolv FR-100	100	4.95	☐	
NuGeneration Technologies, LLC	Fluosolv FR-100	100	4.94	☐	

Conclusion: