CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2016

DateRun: 04/01/2016

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 replacements removing DOW Corning Vacuum Grease from Aluminum substrates .

Experimental Procedure: Aluminum coupons were weighed to get their initial weights. The bottom third of each coupon was coated in the DOW Corning Vacuum 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 and placed to dry on a rack for 15 minutes. Then the final weights were taken

Results:

Cleaner	Initial wt of cont.	Final wt of cont.	%Cont Removed
Ethyl 408	0.7515	0.8062	-7.28
	0.7011	0.7428	-5.95
	0.5652	0.5767	-2.03
Methyl 408	0.2527	0.2426	4.00
	0.1970	0.2009	-1.98
	0.2329	0.2113	9.27
FluoSolv CX	0.6610	0.0373	94.36
	0.4591	0.0141	96.93
	0.6406	0.0207	96.77
FluoSolv NC	0.1519	0.0007	99.54
	0.2105	0.0152	92.78
	0.2012	-0.0032	101.59
Honeywell PF	0.2048	0.0012	99.41
	0.4630	0.2767	40.24
	0.2699	0.0088	96.74
Honeywell PF 2A	0.5921	0.4266	27.95
	0.3759	0.1474	60.79
	0.3229	0.1593	50.67
Vertrel Sion	0.2561	0.0004	99.84
	0.3794	0.0012	99.68
	0.4301	0.0728	83.07
Fluosolv CX-500	1.5909	1.5467	2.78
	0.9217	0.8947	2.93
	1.2629	1.1455	9.30
Fluosolv FR-110	0.3279	0.2439	25.62
	0.3593	0.3352	6.71
	0.4091	0.0763	81.35

Summary:

Substrates:	Aluminum				
Contaminants:	Greases				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Xf Technologies	Ethyl 408	100	-5.09	☐	

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Xf Technologies	Methyl 408	100	3.76	☐	
NuGeneration Technologies, LLC	FluoSolv CX	100	96.02	☑	
NuGeneration Technologies, LLC	FluoSolv NC 786	100	97.97	☑	
Honeywell	Solstice PF with N2	100	78.80	☐	
Honeywell	Solstice PF-2A with N2	100	46.47	☐	
DuPont	Vertrel Sion	100	94.20	☑	
NuGeneration Technologies, LLC	FluoSolv CX-500	100	5.00	☐	
NuGeneration Technologies, LLC	Fluosolv FR-100	100	37.89	☐	

Conclusion: