

# 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:

<b>Substrates:</b>	Aluminum				
<b>Contaminants:</b>	Greases				
<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
Xf Technologies	Ethyl 408	100	-5.09	<input type="checkbox"/>	

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Xf Technologies	Methyl 408	100	3.76	<input type="checkbox"/>	
NuGeneration Technologies, LLC	FluoSolv CX	100	96.02	<input checked="" type="checkbox"/>	
NuGeneration Technologies, LLC	FluoSolv NC 786	100	97.97	<input checked="" type="checkbox"/>	
Honeywell	Solstice PF with N2	100	78.80	<input type="checkbox"/>	
Honeywell	Solstice PF-2A with N2	100	46.47	<input type="checkbox"/>	
DuPont	Vertrel Sion	100	94.20	<input checked="" type="checkbox"/>	
NuGeneration Technologies, LLC	FluoSolv CX-500	100	5.00	<input type="checkbox"/>	
NuGeneration Technologies, LLC	Fluosolv FR-100	100	37.89	<input type="checkbox"/>	

Conclusion: