

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2016

DateRun: 03/04/2016

Experimenters: Russell Curtis, Rhoda Gindi, Alicia McCarthy

ClientType:

ProjectNumber: Project #1

Substrates: Stainless Steel

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 Momenive Grease from Stainless Steel .

Experimental Procedure: Stainless steel coupons were weighed to get their initial weights. The bottom third of each coupon was coated in the Momenive 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	Final wt	% Removal
Ethyl 408	0.2458	0.2605	-5.98
	0.2095	0.2170	-3.58
	0.1481	0.1671	-12.83
Methyl 408	0.1141	0.1132	0.79
	0.1298	0.1323	-1.93
	0.1071	0.1059	1.12
FluoSolv CX	0.1209	0.0700	2.10
	0.1269	0.0501	0.60
	0.1509	0.1000	33.73
FluoSolv NC	0.0981	0.0261	73.94
	0.1151	0.0447	61.16
	0.1020	0.0295	71.08
Honeywell PF	0.2921	0.2482	15.03
	0.2131	0.1560	26.79
	0.2353	0.1711	27.28
Honeywell PF 2A	0.2094	0.1483	29.18
	0.2195	0.1284	41.50
	0.1477	0.0788	46.65
Vertrel Sion	0.1717	0.0588	65.75
	0.1450	0.0366	74.76
	0.1832	0.0341	81.39
Fluosolv CX-500	0.7259	0.7089	2.34
	0.6435	0.6205	3.57
	0.5512	0.5302	3.81
Fluosolv FR-110	0.3911	0.3690	5.65
	0.2871	0.2694	6.17
	0.3120	0.2791	10.54

Summary:

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<b>Substrates:</b>	Stainless Steel				
<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	-7.46	<input type="checkbox"/>	
Xf Technologies	Methyl 408	100	-0.01	<input type="checkbox"/>	
NuGeneration Technologies, LLC	FluoSolv CX	100	84.78	<input checked="" type="checkbox"/>	
NuGeneration Technologies, LLC	FluoSolv NC 786	100	86.18	<input checked="" type="checkbox"/>	
NuGeneration Technologies, LLC	Fluosolv FR-100	100	7.45	<input type="checkbox"/>	
DuPont	Vertrel Sion	100	73.97	<input type="checkbox"/>	
Honeywell	Solstice PF with N2	100	23.04	<input type="checkbox"/>	
Honeywell	Solstice PF-2A with N2	100	39.11	<input type="checkbox"/>	
NuGeneration Technologies, LLC	FluoSolv CX-500	100	3.24	<input type="checkbox"/>	

Conclusion: Fluosolv CX and FluoSolv NC were most effective in removing the Momentive grease.