CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2016

DateRun: 03/15/2016

Experimenters: Alicia McCarthy

ClientType:

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Part

Contaminants: Greases

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric

Purpose: To evaluate the efficiency that various cleaning methods can remove Momentive Grease from Stainless Steel substrate

Experimental Procedure: Stainless steel coupons were selected and arranged into rows of 3 coupons, a row per cleaner. Initial weights were taken, and coupons were soiled and reweighed. The lower third of the coupons were soiled with the momentive grease. Beakers with drop in solvent replacement solutions were set up on stirring plates equipped with a stir bar. The coupons were immersed for 5 minutes. Observations were taken during the cleaning process. The coupons were dried on a rack for 15 minutes. Final weights were recorded.

Results:

Cleaner	Initial wt	Final wt	% Removal
FluoSolv CX	0.3765	0.2448	34.98
	0.2878	0.1626	43.50
	0.3062	0.2073	32.30
FluoSolv NC	0.4160	0.3347	19.54
	0.4833	0.3677	23.92
	0.3835	0.2707	29.41
Solstice PF	0.3008	0.2042	32.11
	0.7799	0.6668	14.50
	0.2201	0.1378	37.39
Solstice PF-2A	0.3417	0.2101	38.51
	0.3014	0.1872	37.89
	0.3670	0.2623	28.53
FluoSolv CX-500	0.1551	0.1446	6.77
	0.1809	0.1704	5.80
	0.1880	0.1777	5.48
Vertrel Sion	0.3530	0.1317	62.69
	0.4428	0.2205	50.20
	0.2691	0.1014	62.32
FluoSolv FR-110	0.2046	0.1962	4.11
	0.1997	0.1912	4.26
	0.1311	0.1249	4.73

Summary:

Substrates:	Stainless Steel				
Contaminants:	Greases				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Honeywell	Solstice PF-2A with N2	100	34.98	☐	
Honeywell	Solstice PF with N2	100	28.00	☐	
NuGeneration Technologies, LLC	FluoSolv CX	100	36.93	☐	

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NuGeneration Technologies, LLC	FluoSolv NC 786	100	24.29	☐	
DuPont	Vertrel Sion	100	83.06	☑	
Honeywell	Solstice 2A	100	6.01	☐	
NuGeneration Technologies, LLC	Fluosolv FR-100	100	4.36	☐	

Conclusion: The Vertrel Sion was effective in the removal of the Momentive grease.