

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004

DateRun: 09/07/2004

Experimenters: Jason Marshall

ClientType: General

ProjectNumber: Project #1

Substrates: Aluminum, Copper, Stainless Steel, Steel

PartType: Coupon

Contaminants: Coatings, Asphalt

Cleaning Methods: Manual Wipe

Analytical Methods:

Purpose: To generate a list of products that could be used to clean asphalt based coating from equipment

Experimental Procedure: Using the laboratory's database for solvent cleaning substitution, the lab generated the following lists of products based on laboratory testing and vendor supplied information.

Results: Two companies have worked with the lab in the past for asphalt related cleaning. Copies of those reports have been sent for review. In addition, SSL generated a list of products that are recommended by vendors for cleaning asphalt from various metal surfaces. Based on supplied information about the nature of the parts, ultrasonic cleaning may prove to be an effective and time saving method for cleaning the described parts. The two lists below are for products that can and can not be used in ultrasonic equipment.

Contaminant: Asphalt  
Substrate: Aluminum, copper, stainless steel and steel  
Equipment: Ultrasonics

Company	Product	Classification
3M	HFE 71 De	HFE
3M	HFE 7100	HFE
3M	HFE 7200	HFE
Bio Chem Systems	Bio T Foam Plus	Terpene
CRC Industries	Complex Blue	Semi-Aqueous
Dow Chemical Company	OS 10	Volatile Methyl Siloxanes
Dow Chemical Company	OS 20	Volatile Methyl Siloxanes
Dow Chemical Company	OS 30	Volatile Methyl Siloxanes
Du Pont	DBE 3	Ester
Du Pont	Vertrel CCA	HFE
Du Pont	Vertrel MCA	HFE
Ecolink	Vortex	Semi-Aqueous
Enviro Tech Int.	Ensolv	nPB
Enviro Tech Int.	Ensolv A	nPB
Kyzen Corporation	Metalnox M6960	nPB
Metabolix Inc	Metabolix E3HB	Ester
Micro Care	Flux Remover C	HFE
Micro Care	Heavy Duty Degreaser C	HFE
Poly Systems USA Inc	Solvon IP	nPB
Poly Systems USA Inc	Solvon PB	nPB

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Vertec BioSolvents	VertecBio Gold 2	Organic
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Contaminant: Asphalt

Substrates: Aluminum, copper, stainless steel or steel

Equipment: Any

Company Name	Product Name	Classification
Calgon Corporation	Geo Guard 5210	Semi-Aqueous
Pentone Corporation	Citrikleen XPC	Terpene-Semi-Aqueous
Petroferm Inc	Lenium CP	nPB
Petroferm Inc	Lenium ES	nPB
Petroferm Inc	Lenium GS	nPB
Safe CleanUp	Super Neutral	Enzymatic/Microbial
Tarksol Inc	Asphalt Release	Terpene
US Polychem Corp	87 RB	Hydrocarbon

Summary:

<b>Substrates:</b>	Aluminum, Copper, Stainless Steel, Steel				
<b>Contaminants:</b>	Coatings, Asphalt				
<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
No Specific Vendor	Supplied alternatives list			<input type="checkbox"/>	

Conclusion:

Cleaning varies from case to case. The SSL recommends process specific testing on potential replacement cleaning chemicals. If more information is needed on a particular product or you are interested in conducting cleaning trials, please contact the lab at (978)934-3133.