

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2020  
 DateRun: 10/06/2020  
 Experimenters: Justin Kiander  
 ClientType: Aircraft Parts Manufacturer  
 ProjectNumber: Project #1  
 Substrates: Glass/Quartz  
 PartType: Coupon  
 Contaminants: Resins/Rosins  
 Cleaning Methods: Immersion/Soak  
 Analytical Methods: Gravimetric, Visual  
 Purpose: The purpose of this experiment was to repeat 30 minute heated immersion with a stir bar using Mirachem 500 as requested by the company.

Experimental Procedure: A solution of Mirachem 500 was prepared to a concentration of 25% and heated to 140°F. Two glass coupons were obtained and weighed. One coupon was then soiled with Rosin #2 while the other was soiled with protect-o-coat and dirty weights were recorded. Once the cleaning solution reached the proper temperature, the coupons were submerged into the beaker along with a stir bar for agitation for 30 minutes. Once 30 minutes had passed, coupons air dried for 24 hours, and a clean weight was then recorded. Effectiveness of the cleaner was then determined.

Cleaner	Soil	Initial wt of cont	Final wt of Cont	%Cont Removed
Mirachem 500	Rosin #2	0.1247	0.1025	17.80
	Protect-o-coat	0.0029	0.0007	75.86

Summary:	<b>Substrates:</b>	Glass/Quartz				
	<b>Contaminants:</b>	Resins/Rosins				
	<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
	Mirachem Corporation	Mirachem 500	25%	17.80	<input type="checkbox"/>	For Rosin #2
	Mirachem Corporation	Mirachem 500	25%	75.86	<input type="checkbox"/>	For Protect-o-coat

Conclusion: Mirachem 500 removed 17.80% of Rosin #2 and 75.86% of protect-o-coat from glass coupons via heated immersion with agitation.