

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2015
 DateRun: 12/01/2015
 Experimenters: Rhoda Gindi
 ClientType: General
 ProjectNumber: Project #1
 Substrates: Brass
 PartType: Part
 Contaminants: Dirt, Oil
 Cleaning Methods: Immersion/Soak
 Analytical Methods: Gravimetric, Visual

Purpose: To evaluate the efficacy of cleaners in removing oil and dirt from brass coupons

Experimental Procedure: Initial weights were recorded for the brass coupons. The coupons were coated with the half a gram of the oil contaminant and re-weighed. The coupons were then submerged for one minute into different cleaners to determine the % of contaminant removal. For five of the cleaners, the coupons were placed in a beaker containing DI water. Once removed from the DI water, a blow dryer was used for 20 seconds to remove residual water. Visual observation and re-weighing of contaminant removal were recorded.

Cleaner	Initial Wt.	Final Wt.	% Removed
BioSolv	0.4248	0.0110	97.41
	0.5055	0.0253	95.00
	0.6076	0.0255	95.80
CB100 ALU	0.5447	0.0207	96.20
	0.5683	0.0441	92.24
	0.5260	0.0408	92.25
SC Aircraft and Metal Cleaner	0.5554	0.1174	78.86
	0.5453	0.0201	96.31
	0.4597	0.1419	69.13
Amberclean L 12	0.5855	0.0145	97.52
	0.5515	0.0668	87.89
	0.5389	0.0231	95.71
SolSafe	0.5274	0.0127	97.59
	0.5136	0.0072	98.60
	0.5510	0.0092	98.33

Summary:	Substrates:	Brass				
	Contaminants:	Dirt, Oil				
	Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
	Phoenix Resins Inc	BioSolv	100	96.07	<input checked="" type="checkbox"/>	
	J Walter Inc.	Bio Circle CB 100 ALU	100	93.56	<input checked="" type="checkbox"/>	
	Gemtek Products	SC Aircraft & Metal Cleaner Super Concentrate	100	81.44	<input type="checkbox"/>	
	Innovative Organics Inc	Amberclean L 12	100	93.71	<input checked="" type="checkbox"/>	
Conclusion:	Bio Chem Systems	Solsafe 245	100	98.17	<input checked="" type="checkbox"/>	

Although all the cleaners worked well, SolSafe has the highest percentage of oil removal.