

CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2004							
DateRun:	05/07/2004							
Experimenters:	Jason Marshall							
ClientType:	Jewelry Mfr							
ProjectNumber:	Project #2							
Substrates:	Sterling/Silver							
	-							
PartType:	Coupon							
Contaminants:	Oil							
Cleaning Methods:	Immersion/Soak							
Analytical Methods:	Gravimetric							
Purpose:	To evaluate an additional five products on the first contaminant							
Experimental Procedure:	Five products were selected based on success on the fourth supplied contaminant. All five products were used at full strength in a 250 ml beaker. Two products were heated to 96 F on a hot plate and the three Dow products were used at room temperature. Twenty-seven preweighed silver plated copper coupons were coated with the Exxon Mobil Vacmul 03D (94741-44-2) using a hand held swab. Coupons were weighed a second time to determine the amount of soil added to each coupon. Three coupons were cleaned in each solution for 5 minutes using stir-bar agitation. After cleaning parts were weighed a final time and efficiencies were calculated.							
Results:	All five products tested on the oil removed over 97% in five minutes. The table lists the amount of soil added, the amount remaining and the efficiency for each coupon.							
	Cleaner	Initial wt	Final wt	% Removed				
	Solvon PB	0.0662	-0.0003	100.45				
		0.1293	0.0011	99.15				
	Solvon IP	0.1018	0.0006	99.41 99.61				
		0.0920	0.0003	99.80				
		0.0770	0.0026	96.62				
	OS 10	0.0997	0.0021	97.89				
		0.0839	0.0005	99.40				
		0.0722	0.0014	98.06				
	OS 20	0.0944	0.0038	95.97				
		0.0976	0.0018	98.16				
		0.0616	0.0014	97.73				
	OS 30	0.1107	0.0020	98.19				
		0.0522	0.0013	97.51 97.84				
Summary:		· · · · ·						
Sammary.	Substrates: Sterling/Silver							
	Contaminants: Oil							
		ny Name:		oduct Name:	Conc.: 100	Efficiency:	Effective:	Observations:
	Poly System	ns USA Inc	Solvo	Solvon Kreussler PB		99.67	\checkmark	
	Poly System	ns USA Inc	Solvo	Solvon Kreussler IP		98.35	\checkmark	
	Dow Chemi	cal Company	y OS 10	OS 10		98.45	\checkmark	
	Dow Chemical Company		y OS 20	OS 20		97.29	\checkmark	
	Dow Chemical Company		y OS 30		100	97.85	\checkmark	
Conclusion: The three Dow products will be tested on the second supplied oil.								