

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1998  
 DateRun: 04/02/1998  
 Experimenters: Jason Marshall  
 ClientType: Manufacturers of Precision Parts and Assemblies  
 ProjectNumber: Project #2  
 Substrates: Liquid  
 PartType: Part  
 Contaminants: Cutting/Tapping Fluids, Lubricating/Lapping Oils, Oil  
 Cleaning Methods:  
 Analytical Methods: Colorimeter  
 Purpose: Measure characteristics of cleaner

Experimental Procedure: To measure characteristics of cleaner to determine a relationship between cleaning efficiency and bath life. Measure %Transmittance & Absorbance @ 530nm, Sulfate & Sulfide concentration, and Turbidity of the cleaning liquid using LaMotte's Smart Colorimeter.

SUBSTRATE MATERIAL: Liquid (cleaning bath, M-Auto)  
 CONTAMINANTS: None

Results:	3/31/98 Bath	%Trans	Absorbance	Sulfate Conc.	Sulfide Conc.	Turbidity
	Reading #1	65	0.19	4ppm	0.51	4
	Reading #2	71	0.15	4ppm	0.49	4
	Reading #3	66	0.18	4ppm	0.42	4
	Average	67	0.17	4ppm	0.47	4

Summary:	<b>Substrates:</b>	Liquid				
	<b>Contaminants:</b>	Cutting/Tapping Fluids, Lubricating/Lapping Oils, Oil				
	<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
	Church & Dwight Co Inc.	Armakleen M Auto			<input type="checkbox"/>	

Conclusion: Cleaning efficiency of the cleaning bath obtained from 3/31/98 will be determined after receiving a sample of the clients oil. The results of the efficiency will be linked to the characteristics obtained in this trial so that a relationship could be determined. With this relationship, bath effectiveness can be checked using the above testing methods.