

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2009  
 DateRun: 02/24/2009  
 Experimenters: Johanna Oviedo  
 ClientType: Lab  
 ProjectNumber: Project #1  
 Substrates: Aluminum  
 PartType: Coupon  
 Contaminants: Buffing/Polishing Compounds  
 Cleaning Methods: Immersion/Soak  
 Analytical Methods: Gravimetric

Purpose: To remove buffing compound from aluminum using immersion cleaning.

Experimental Procedure: Basic cleaning performance testing was conducted using ASTM G122 as the bases for cleaning. Products were selected based on the compatibility of substrate and for removal of the contaminant. Ten percent concentrations were used and heated the samples at 130F. The coupons were immersed in a product for 5 minutes, rinsed in tap water at 120 F and dried using compressed air at room temperature. Coupons were coated with the buffing compound contaminant using a handheld swab and allowed to dry for 120 minutes at room temperature. The contaminated coupons were weighed again to determine the amount of soil added. After cleaning process, the final weights were recorded, efficiencies were calculated and recorded.

Cleaner	Initial Wt.	Final Wt.	% Removed
Cleaner #10	0.0883	0.0750	15.06
	0.0693	0.0350	49.49
	0.1100	0.1000	9.09
Green Works All Purpose	0.0323	0.0306	5.26
	0.0601	0.0565	5.99
	0.0361	0.0332	8.03
Heavy Duty Cleaner	0.0695	0.0649	6.62
	0.1183	0.1000	15.47
	0.1135	0.0754	33.57
Clorox Kitchen Cleaner	0.0440	0.0268	39.09
	0.0963	0.0385	60.02
	0.0996	0.0780	21.69

Summary:	<b>Substrates:</b>	Aluminum				
	<b>Contaminants:</b>	Buffing/Polishing Compounds				
	<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
	Sky Products Company Inc	Cleaner #10	10	24.55	<input type="checkbox"/>	
	Clorox Company	Green Works Multi-Surface Cleaner	10	6.43	<input type="checkbox"/>	
	Scout Systems	Scout Heavy Duty	10	18.55	<input type="checkbox"/>	
	Clorox Company	Clorox Kitchen Cleaner	10	40.27	<input type="checkbox"/>	

Conclusion: No product removed over 85% of the buffing compound from the aluminum coupons using immersion cleaning.