CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2020

DateRun: 08/13/2020

Experimenters: Justin Kiander

ClientType: Metal Working

ProjectNumber: Project #1

Substrates: Aluminum

PartType: Coupon

Contaminants: Buffing/Polishing Compounds

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric, Visual

Purpose: To test the effectiveness of Surface Cleanse 930 on the removal of various contaminants.

Experimental Procedure: Three sets of three pre-weighted aluminum coupons were soiled with their respective contaminants using a cotton swab. Each set of coupons were immersed into a beaker with Surface Cleanse 930 at a concentration of 5%, for 15 minutes at a temperature of 120° F. During this process, any noticeable soil removal was observed. Coupons were dried with a heat gun as well as with a manual wipe afterwards, to inhibit the cleaner creating visual damage to the substrates. After drying, final weights were recorded, and efficiency was calculated for each coupon cleaned.

Results:

Cleaner	Soil	Coupon	Initial wt. of cont.	Final wt. cont.	% Cont. Removed	Average
Surface Cleanse 930 (5%)	Red	8	0.0129	0.0025	80.62	83.93
		10	0.0245	0.0043	82.45	
		13	0.0275	0.0031	88.73	
	Blue	14	0.0541	0.0056	89.65	87.90
		16	0.0357	0.0028	92.16	
		17	0.0569	0.0103	81.90	
	White	19	0.0147	0.0028	80.95	82.51
		21	0.0217	0.0044	79.72	
		22	0.0472	0.0062	86.86	

Summary:

Substrates:	Aluminum
Contaminants:	Buffing/Polishing Compounds

Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
International Products Corporation	Surface Cleanse Concentrated Neutral 930	5	84.47	☑	

Conclusion: Visually Surface Cleanse 930 did not generate much removal but did preform gravimetrically very similarly for all three soils. The subsequent step is to keep the time and temperature constant and introduce agitation in the form of ultrasonics.