CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2026

DateRun: 08/04/2026

Experimenters: Ashar Khan, Evan Hebert

ClientType: Lab

ProjectNumber: Project #17

Substrates: Aluminum

PartType: Coupon

Contaminants: Greases, Lubricating/Lapping Oils, Oil

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric

Purpose: To determine the efficacy of modified alcohol Metalnox M6386 chemistry in removing various industrial soils without the assistance of vacuum vapor degreasing equipment.

Experimental Procedure: Three Aluminum coupons were assigned to each of 2 industrial soils; American lapping compound and J2 grease. Each coupon was weighed using a gravimetric balance and had their initial weights recorded. Each coupon was then soiled with a pea sized amount of the appropriate soil using a swab to spread it across the surface of the coupons. Each coupon was weighed again and had their dirty weights recorded. The coupons were then immersed in a beaker of the Metalnox M6386 modified alcohol with a stir bar set to 200rpm for 10 minutes. Upon removal from the beaker, the coupons were allowed to air dry for 1 hour before being weighed and having their final weights recorded.

Results:

Soil	Initial wt of cont.	Final wt of cont.	%Cont Removed	% AVG
American Lapping Compound	0.3087	0.0138	95.53	95.04
	0.2936	0.0199	93.22	
	0.3229	0.0117	96.38	
J2 Grease	0.1805	0.0064	96.45	92.80
	0.1372	0.0142	89.65	
	0.1415	0.0109	92.30	

Summary:

Substrates:	Aluminum				
Contaminants:	Greases, Lubricating/Lapping Oils, Oil				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Kyzen Corporation	Metalnox M6386		93.92	☑	

Conclusion: