

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 100rpm for 5 minutes. Upon removal from the beaker, the coupons were allowed to air dry for 20 minutes before being weighed and having their final weights recorded.																															
Results:	<table> <tr> <th>Soil</th> <th>Initial wt of cont.</th> <th>Final wt of cont.</th> <th>%Cont Removed</th> <th>% AVG</th> </tr> <tr> <td rowspan="3">American Lapping Compound</td> <td>0.3087</td> <td>0.0138</td> <td>95.53</td> <td rowspan="3">95.04</td> </tr> <tr> <td>0.2936</td> <td>0.0199</td> <td>93.22</td> </tr> <tr> <td>0.3229</td> <td>0.0117</td> <td>96.38</td> </tr> <tr> <td rowspan="3">J2 Grease</td> <td>0.1805</td> <td>0.0064</td> <td>96.45</td> <td rowspan="3">92.80</td> </tr> <tr> <td>0.1372</td> <td>0.0142</td> <td>89.65</td> </tr> <tr> <td>0.1415</td> <td>0.0109</td> <td>92.30</td> </tr> </table>					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
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