

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004  
DateRun: 07/23/2004  
Experimenters: Jason Marshall, Heidi Wilcox, Andy Harris  
ClientType: Metal Finishing  
ProjectNumber: Project #2  
Substrates: Aluminum  
PartType: Coupon  
Contaminants: Coatings  
Cleaning Methods: Immersion/Soak  
Analytical Methods: Gravimetric

Purpose: To evaluate the successful product on the last contaminant

Experimental Procedure: The supplied product was used as received in 400 ml beakers and heated to 120 F on a hot plate. Three preweighed aluminum coupons were coated with client supplied coating, Castrol Industries Rustilo 4163 (64742-46-7, 8002-74-2, 34590-94-8), using a hand held swab and then weighed a second time to determine the amount of soil added. Three coupons were cleaned in each solution for 5 minutes using stir-bar agitation. Coupons were rinsed in tap water for 15 seconds at 120 F, followed by air blow off at room temperature. Once dry, coupons were weighed a final time and efficiencies for each cleaner were calculated.

Results: The Alkalume removed 97% of the contaminant from the coupons. The table below lists the amount of soil added, the amount remaining and the efficiency for each coupon cleaned.

Cleaner	Initial wt	Final wt	% Removed
Alkalume LN	0.3965	0.0111	97.20
	0.3380	0.0076	97.75
	0.3534	0.0126	96.43

Summary:

<b>Substrates:</b>	Aluminum				
<b>Contaminants:</b>	Coatings				
<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
McGean Rohco Inc	Alkalume LN	100	97.13	<input checked="" type="checkbox"/>	

Conclusion: This product and the five from the first round of testing will be used on supplied parts using ultrasonic energy.