

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1999

DateRun: 03/09/1999

Experimenters: Jason Marshall

ClientType: State Transportation Agency

ProjectNumber: Project #1

Substrates: Aluminum

PartType: Part

Contaminants: Cutting/Tapping Fluids, Greases, Lubricating/Lapping Oils, Dirt, Oil

Cleaning Methods: Media Blasting

Analytical Methods: Visual

Purpose: To evaluate baking soda blasting as a method to clean the brushed aluminum from trains.

Experimental Procedure: Two brushed aluminum parts were brought to a facility in Springfield that operates an Armex Cleaning and Coating Removal System. The media being used with this blasting equipment was Arm & Hammer Baking Soda from Church & Dwight Co. The system operates with a pressure of 100 psi and a delivery of 150 cubic feet per minute of the baking soda. The part was placed into the cleaning chamber. The time required to clean the parts was under 15 seconds. Parts were rinsed for 10 seconds with a tap water spray.

SUBSTRATE MATERIAL: Brushed Aluminum  
CONTAMINANTS: Dirt, oil & grease

Results: Parts were easily cleaned using the Armex system. The parts have been returned to the client for inspection.

Summary:

<b>Substrates:</b>	Aluminum					
<b>Contaminants:</b>	Cutting/Tapping Fluids, Greases, Lubricating/Lapping Oils, Dirt, Oil					
<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>	
Armex Cleaning and Coating Removal Systems	Sodium Bicarbonate	100		<input checked="" type="checkbox"/>		

Conclusion: Baking soda blasting could be used to provide an initial base line cleaning for the brushed aluminum. Additional product literature has been included with this report.