CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2009
DateRun:	06/07/2009
Experimenters:	Jason Marshall, Junhee Cho, Timothy Weil
ClientType:	Cleaner Manufacturer
ProjectNumber:	Project #1
Substrates:	Glass/Quartz
PartType:	Coupon
Contaminants:	None
Cleaning Methods:	
Analytical Methods:	Timing
Purpose:	To evaluate aerosol stainless steel cleaner/polish cleaners for vertical adhesion to glass surface
Experimental Procedure:	A large glass window was cleaned using Green Works Glass Cleaner from Clorox to ensure uniform clean surface. Once dry each of the test aerosol products were sprayed for 1-2 seconds onto the surface. A timer was started to determine the time the cleaner took to travel 1 foot (30 cm). A second observation was made to see how much movement was achieved for the products for a total of 2 minute. At the end of 2 minutes the distance traveled by the product was recorded. For products that need more than 1 minute to travel the 30 cm, time will be recorded as greater than 2 minutes and receive a score of excellent. For products that run down the entire length of the window (4 feet) in less than the 2 minutes, the distance will be recorded as greater than 4 feet and will receive a score of poor.

Time rating	
120	Excellent
60	Good
30	Okay
15	Fair
<15	Poor
Distance rating	
<1	Excellent
1	Good
2	Okay
3	Fair
4	Poor

Results:

Product	Time for 1 foot	Rating	Distance in 2 minutes	Rating	
A00146	1 min 50 sec	2	14	2	
	>2 min	1	6.5	1	
	>2 min	1	8.75	1	
Product Average		1.3		1.3	1.3
A00142	>2 min	1	7.5	1	
	57 sec	3	19.5	2	
	>2 min	2	3	1	
Product Average		2.0		1.3	1.3
3M STAINLESS	>2 min	1	1.25	1	

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STEEL CLNR/ POLISH					
	>2 min	1	0	1	
	>2 min	1	0	1	
Product Average		1.0		1.0	1
SPARTAN STAINLESS STEEL CLNR/ POLISH	>2 min	1	2.25	1	
	>2 min	1	1.75	1	
	>2 min	1	0	1	
Product Average		1.0		1.0	1
CLAIRE STAINLESS STEEL MAINTAINER	>2 min	1	0	1	
	>2 min	1	3.5	1	
	>2 min	1	4	1	
Product Average		1.0		1.0	1
WIEMANNS SS CLNR/ POLISH	>2 min	1	0	1	
	>2 min	1	0	1	
	>2 min	1	0.25	1	
Product Average		1.0		1.0	1

Summary:

Substrates:	Glass/Quartz				
Contaminants:	None				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Amrep Inc	Stainless Steel Cleaner & Polish A00146 Aerosol	100	0.00	☑	Rank = 5
Amrep Inc	Misty Painless Stainless A00142 Aerosol	100	0.00	☑	Rank = 6
3M	Stainless Steel Cleaner & Polish Aerosol	100	0.00	☑	Rank = 1
Spartan Chemical Company	Stainless Steel Cleaner Polish Aerosol	100	0.00	☑	Rank = 1
Claire Manufacturing	Stainless Steel Polish & Cleaner Aerosol	100	0.00	☑	Rank = 1
Herbert Stanley Comp	Weiman Stainless Steel Cleaner & Polish Aerosol	100	0.00	☑	Rank = 1

Conclusion:

Four of the products in the stainless-steel category received the best score for the vertical cling test. The two Amrep products resulted in slightly lower ratings but still in the good to excellent range.