CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2018

DateRun: 01/28/2018

Experimenters: Kevin Smith, Justin Rainaud

ClientType: Cleaner Manufacturer

ProjectNumber: Project #14

Substrates: Glass/Quartz

PartType: Part

Contaminants: None

Cleaning Methods: Low Pressure Spray

Analytical Methods: Timing

Purpose: To evaluate aerosol glass/surface cleaners for vertical adhesion to glass surface.

Experimental Procedure: A large glass window was cleaned using Windex from SC Johnson 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 minutes. 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 were recorded as greater than 4 feet and will receive a score of poor.

Observations were made using the following:

Time rating (sec)	Rating	Distance Rating (foot)	Rating
120	Excellent	<1	Excellent
60	Good	1	Good
30	Okay	2	Okay
15	Fair	3	Fair
<15	Poor	4	Poor

Results: Both products had good to excellent vertical cling as determined by the length of time needed to travel one foot and how far the sprayed product traveled in 2 minutes. The table lists the time and distances for each product.

Product	Time 1ft	Rating	Distance in 2 min	Rating
Foaming Glass Cleaner Clorox	108 sec	2	37	2
	>120 sec	1	27	1
	>120 sec	1	27	1
	Product Average	1.3		1.3
Foaming Glass Cleaner Windex	108 sec	2	45	2
	112 sec	2	37	2
	120 sec	3	30	2
	Product Average	2.3		2

Summary:

Substrates:	Glass/Quartz				
Contaminants:	None				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Brand Buzz	Clorox Foaming Glass Cleaner	100%	1.30	☑	
SC Johnson & Son Inc	Windex Foaming Glass Cleaner	100%	2.00	☐	

Conclusion: Brand Buzz Clorox Foaming Glass Cleaner was the most effective during glass cling testing.