CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2010
DateRun:	05/04/2010
Experimenters:	Jason Marshall
ClientType:	Cleaner Manufacturer
ProjectNumber:	Project #1
Substrates:	Textile
PartType:	Coupon
Contaminants:	Dirt
Cleaning Methods:	Mechanical Agitation
Analytical Methods:	Gloss-Color Meter
Purpose:	To evaluate carpet resoiling characteristics of supplied cleaning product for GS 37 certification
Experimental Procedure:	Carpet pieces that were previously soiled and cleaned with the supplied product and Liquid Formula 90 (industry standard product) were resoiled by placing the carpet sections into the 1-gallon can, making sure the carpet lined the inner wall of the can. Nalgene® tubing cut into 1/8" pieces were poured into the bucket and 2 grams of the AATCC soil was distributed along the width of the can. The can was lidded and placed into a harness attached to a crank shaft. The crank was turned at an average rate of 42 rpm by hand for 5 minutes in one direction, followed by 5 minutes of rotation in the opposite direction. At the end of the 10-minute soiling regime, the carpet was placed onto a carpet template and vacuumed with a Eureka SuperBroom (Brush-Up, Motor-Driven/Brush-Roll) vacuum for 5 strokes in the forward direction followed by the same number of strokes in the backward direction. The carpet pieces were evaluated again using a BYK specro-guide gloss color meter was used to measure L-values from the surface of the carpet.
Results:	The two dilutions of PC 120 both dilutions had better resoiling characteristics as shown by the higher light meter readings and the lower difference in final L value and extraction L values. The PC 220 at the 1:64 dilution had similar results to the industry comparative product. All products and dilutions worked better than water alone. The table list the L-value reading for each section of carpet before resoiling and after vacuuming.

Cleaner	Part	Extraction	Ave E	Resoil	Ave R	Difference
Chemspec Liquid 90 1:640	A	72.65	72.05	54.49	55.72	16.33
	B	74.73	59.17			
	C	68.77	53.51			
MD Steston PC 120 1:64	A	75.67	72.3	57.43	59.22	13.08
	B	71.95	57.38			
	C	69.27	62.84			
MD Steston PC 120 1:128	A	72.14	69.78	58.34	56.49	13.29
	B	65.96	53.3			
	C	71.24	57.82			
MD Steston PC 220 1:64	A	73.95	73.92	59.53	56.57	17.35
	B	73.09	52.2			
	C	74.71	57.98			
MD Steston PC 220 1:128	A	74.41	70.08	47.76	51.7	18.39

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	B	66.37	50.63			
	C	69.47	56.7			
Water	A	70.85	70	59.79	51.17	18.83
	B	71.26	44.31			
	C	67.88	49.4			

Summary:

Substrates:	Textile
Contaminants:	Dirt

Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Chemspec	Liquid Formula 90	0.16	0.00	☑	
Next-Gen Supply Group	PC 120 Peroxide Mulitsurface Cleaner	1.56	0.00	☑	
Next-Gen Supply Group	PC 120 Peroxide Mulitsurface Cleaner	0.78	0.00	☑	
Next-Gen Supply Group	PC 220 Peroxide Multipurpose Cleaner	1.56	0.00	☑	
Next-Gen Supply Group	PC 220 Peroxide Multipurpose Cleaner	0.78	0.00	☐	
Water	Water	100	0.00	☐	

Conclusion: The PC 120 at 1:64 and 1:28 and the PC 220 were better than or comparable to the conventional non-green product for resoiling.