

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2008
 DateRun: 11/06/2008
 Experimenters: Jason Marshall
 ClientType: Electro-Optical Devices
 ProjectNumber: Project #1
 Substrates: Glass/Quartz
 PartType: Coupon
 Contaminants: Films
 Cleaning Methods: Manual Wipe
 Analytical Methods: Visual

Purpose: To evaluate products with better pH values for EVA Film removal

Experimental Procedure: The top five products from the previous retesting were used at full strength and room temperature. Glass coupons were contaminated with a strip of the supplied EVA Film. Coupons were then cleaned with each solution. Cleaning was performed by soaking a WypAll X60 reinforced paper towel with the cleaning solution. The coupons were then manually wiped for up to 2 minutes. Visual observations were made and recorded during cleaning.

Results: All five of the products removed the EVA film within 10 seconds of the manual wiping. The table lists the amount of time required to remove the film from the glass surface.

Product	Time
Free & Clear	5 seconds
Scout Glass & Surface	3 seconds
Kernel Clean	7 seconds
Clean Environment Glass	4 seconds
SC More Than Glass	3 seconds

Summary:

Substrates:	Glass/Quartz				
Contaminants:	Films				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Seventh Generation	Natural Glass and Surface Cleaner	100	0.00	<input checked="" type="checkbox"/>	
Scout Systems	Scout Glass & Surface Cleaner	100	0.00	<input checked="" type="checkbox"/>	
Franmar Chemical	Kernel Clean glass cleaner	100	0.00	<input checked="" type="checkbox"/>	
The Clean Environment Co	Glass and Hard Surface Cleaner	100	0.00	<input checked="" type="checkbox"/>	
Gemtek Products	SC More Than Glass Cleaner	100	0.00	<input checked="" type="checkbox"/>	

Conclusion: The five products will be evaluated on the supplied flux.