

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2008  
 DateRun: 11/07/2008  
 Experimenters: Jason Marshall  
 ClientType: Electro-Optical Devices  
 ProjectNumber: Project #1  
 Substrates: Glass/Quartz  
 PartType: Coupon  
 Contaminants: Adhesive  
 Cleaning Methods: Manual Wipe  
 Analytical Methods: Visual

Purpose: To evaluate products with better pH values for adhesive removal

Experimental Procedure: Eight products were selected from the laboratory's web database, [www.cleansolutions.org](http://www.cleansolutions.org), based on supplied information from the client. Each product was used at full strength and room temperature. Glass coupons were contaminated with a strip of the supplied adhesive tape. 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: Five of the eight products removed the adhesive within 1 minute of the manual wiping. The table lists the amount of time required to remove the adhesive from the glass surface.

Product	Time
Free & Clear	36 seconds
Scout Glass & Surface	37 seconds - foamy, could be diluted
Kernel Clean	45 seconds
Clean Environment Glass	57 seconds
Biorenewable Glass	79 seconds - foamy
SC More Than Glass	22 seconds
EnviroCare Glass	71 seconds - foamy, could be diluted
Smart Solve 605	Over 2 minutes

Summary:

<b>Substrates:</b>	Glass/Quartz				
<b>Contaminants:</b>	Adhesive				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Seventh Generation	Natural Glass and Surface Cleaner	100		<input checked="" type="checkbox"/>	
Scout Systems	Scout Glass & Surface Cleaner	100		<input checked="" type="checkbox"/>	
Franmar Chemical	Kernel Clean glass cleaner	100		<input checked="" type="checkbox"/>	
The Clean Environment Co	Glass and Hard Surface Cleaner	100		<input checked="" type="checkbox"/>	
Spartan Chemical Company	Biorenewables Glass Cleaner	100		<input type="checkbox"/>	
Gemtek Products	SC More Than Glass Cleaner	100		<input checked="" type="checkbox"/>	
Rochester Midland Corporation	EnviroCare Glass Cleaner	100		<input type="checkbox"/>	
United Laboratories International	Smart Solve 605	100		<input type="checkbox"/>	

Conclusion: The five products with the shortest required cleaning times will be evaluated on the EVA film.