# CLEANING LABORATORY EVALUATION SUMMARY

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|---|---|
| SCL #: | 2008 |
| DateRun: | 11/07/2008 |
| 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.<br>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 | | ☑ | |
| Scout Systems | Scout Glass & Surface Cleaner | 100 | | ☑ | |
| Franmar Chemical | Kernel Clean glass cleaner | 100 | | ☑ | |
| The Clean Environment Co | Glass and Hard Surface Cleaner | 100 | | ☑ | |
| Gemtek Products | SC More Than Glass Cleaner | 100 | | ☑ | |

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