

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1998

DateRun: 10/22/1998

Experimenters: Jason Marshall

ClientType: Recycling

ProjectNumber: Project #2

Substrates: Glass/Quartz

PartType: Part

Contaminants: Adhesive

Cleaning Methods: Immersion/Soak

Analytical Methods: Visual

Purpose: Glass was cut along the desired location in order to separate the leaded frit and the front unleaded section.

Experimental Procedure: The back tip of the monitor was broken off to release the vacuum. The glass was cut along the desired location in order to separate the leaded frit and the front unleaded section. The part was placed into a bath of Citrinox (2%) at 150 F. The monitor was left in the heated bath for four minutes. At the end of this cycle, the monitor was placed into a tap water bath at room temperature for two minutes. The cycle was repeated as necessary for separation to take place.
SUBSTRATE MATERIAL: Monitor screens with leaded and unleaded glass
CONTAMINANTS: Frit and adhesive

Results: When the screen was placed into the room temperature water, a popping sound was noted. Upon submersion into the hot bath solution, the front section of the bath was removed. Upon examination of the glass, it was noted that there was a definite layer separating the front unleaded glass from the back leaded section. See Figure 1 for representation.
The breaking of the glass closely followed the cutting made prior to the soaking cycle. The amount of time needed for separation was far less than in previous tests.

Summary:

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|----------------------|----------------------|---------------|--------------------|-------------------------------------|----------------------|
| Substrates: | Glass/Quartz | | | | |
| Contaminants: | Adhesive | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| Alconox Inc | Citranox | 2 | | <input checked="" type="checkbox"/> | |

Conclusion: Precutting the glass along the desired location resulted in a more desirable break. The screen used in this trial was different than previous tests. There was a distinct layer separating the two glass types. Future experiments may be done to compare the two types of screens tested so far.