

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2007  
 DateRun: 01/03/2007  
 Experimenters: Jason Marshall  
 ClientType: Lab  
 ProjectNumber: Project #1  
 Substrates: Rubber, Textile  
 PartType: Coupon  
 Contaminants: Odor  
 Cleaning Methods: Low Pressure Spray  
 Analytical Methods: Smell

Purpose: Laboratory evaluations of alternative cleaning products

Experimental Procedure: Basic cleaning performance testing was conducted using ASTM G122 as the bases for cleaning. A carpet with rubber backing was presoiled with cat urine. The carpet was washed three times using Renuzit Odor Eliminator powder soap and twice using Tide with Febreze. Each cleaning took place in a standard washing machine. The carpet was dried once in a standard clothes dryer. Following the cleaning, an initial odor level was evaluated and recorded. Each selected odor eliminator spray product was applied to a section of the fabric section and then the rubber backing and allowed to sit for 30 minutes. Observations were made. Application of the odor eliminator products was reapplied if the odor remained. The number of applications was also recorded.

|          |                    |  |
|----------|--------------------|--|
| Results: | Product            | Observations   |
|          | Super H2O2         | Required multiple applications to reduce the odor    |
|          |                    | Minor level of odor remaining after 5 applications   |
|          | Odor Ex            | Required multiple applications to reduce the odor    |
|          |                    | Minimal level of odor remaining after 5 applications |
|          | Quick Spot Release | Required multiple applications to reduce the odor    |
|          |                    | Still had noticeable odor after 5 applications       |

|          |                      |                               |                 |                    |                                     |                      |
|----------|----------------------|-------------------------------|-----------------|--------------------|-------------------------------------|----------------------|
| Summary: | <b>Substrates:</b>   |                               | Rubber, Textile |                    |                                     |                      |
|          | <b>Contaminants:</b> |                               | Odor            |                    |                                     |                      |
|          | <b>Company Name:</b> | <b>Product Name:</b>          | <b>Conc.:</b>   | <b>Efficiency:</b> | <b>Effective:</b>                   | <b>Observations:</b> |
|          | Cleanline Products   | H2O2 Super Citrus Concentrate | 2.5             |                    | <input checked="" type="checkbox"/> |                      |
|          | Gemtek Products      | SC Odor Ex                    | 100             |                    | <input checked="" type="checkbox"/> |                      |
|          | Envirox LLC          | Quick Spot Crystal            | 100             |                    | <input type="checkbox"/>            |                      |

Conclusion: Two of the three odor eliminators (Super H2O2 and Odor Ex) had moderate success after multiple applications to the carpet and rubber surfaces. The Odor Ex was the most effective.