

A Cleaning Performance Evaluation



TESTING PERFORMED AT:
Toxics Use Reduction Institute (TURI)
Surface Solutions Laboratory
University of Massachusetts Lowell

TURI developed the test procedure and test method. Most testing performed to a modified ASTM G122 Test Method, a modified version of the Green Seal GS-37 standard, the CSPA DCC-17—Greasy Soil Test Method, or the CRI Carpet Spot Cleaning TM-110 standard.



- The TURI lab concludes that the Activeion technology is as good as or better than traditional commercial grade cleaning chemicals.
- The Activeion product has the highest possible safety profile as determined by the TURI lab.

GENERAL PURPOSE CLEANING

The Activeion technology was tested against a commercial grade general purpose cleaner. The test was conducted with Hucker's Soil (a mixture containing creamy peanut butter, salted butter, stone ground wheat flour, egg yolk, evaporated milk, distilled water, printer's ink with boiled linseed oil and saline solution). The mixture was applied to ceramic, stainless steel, and plastic surfaces.

TURI Conclusion: The Activeion technology removed more than 90 percent of the Hucker's Soil on two of the three surfaces in the first pass and was found to be more effective than the conventional cleaning products. The composite soil used in this test represents a worst-case cleaning scenario.





the highest possible safety profile

GLASS, CHROME AND MIRRORS

The Activeion technology was tested against a leading glass cleaner. The test was conducted with SSL Soil 2 (a soap scum mixture containing shaving cream, deodorant, hair gel, toothpaste and water). The mixture was applied to glass, chrome, and mirror surfaces.

TURI Conclusion: The Activeion technology is the most effective soap scum remover and had the lowest level of filming.

STAINLESS STEEL

Stainless steel coupons were measured with a gloss meter before and after cleaning to determine how well the supplied product improved the gloss of the surface. In addition, visual observations were made as to the level of cleanliness achieved. The stainless steel coupons were contaminated with several layers of finger prints and wiped with a microfiber cloth.

TURI Conclusion: The Activeion product was effective at removing finger oils from the stainless steel surface and performed better than the stainless steel cleaner. The Activeion technology improved the shine/gloss by 20 percent.

GREASE CLEANING

A mixture of vegetable shortening, lard, vegetable oil and carbon lampblack was used for this test. Cleaning performance was taken as a linear function of reflectance value, and visually evaluated by at least three lab staff members. The Activeion product was compared against a powder cleaner and a conventional degreaser.

TURI Conclusion: Based on visual observations of the lab staff and readings from the light reflectivity meter, the Activeion technology performed better than the traditional chemical degreaser.

CARPET STAIN CLEANING

Carpet was stained with mustard, ketchup, hot coffee, purple grape juice, black permanent marker, dirty motor oil, AATCC synthetic soil and chocolate syrup.

TURI Conclusion: With no soak time, the Activeion technology is determined to be effective on five of the eight stains in one attempt. Activeion scored the lowest on the black permanent marker stain and scored well on the coffee, ketchup, motor oil, synthetic soil and chocolate syrup stains.