



PCS SCREENING TEST

In 2011, the World Federation of Building Service Contractors Association proposed cleaning to a scientifically validated standard. Cleaning to a level equal to “The Internationally specified acceptable microbial count on food-processing equipment of less than 5 colony forming units per square centimeter.”

PCS has created a screening test to evaluate various cleaning techniques that could meet this criteria, **AS CLEANING TO THIS LEVEL PREVENTS SPREADING OF ORGANIC CONTAMINATION FROM CLEANING AND INSURES GREATER EFFICACY OF DISINFECTANTS WHEN APPLIED TO SURFACES CLEANED TO THIS STANDARD.**

“Cleaning is always essential prior to disinfection or sterilization. An item that has not been cleaned cannot be assuredly disinfected or sterilized”
 Public Health Agency of Canada/Health Canada

The PCS cleaning test

A 1380 square centimeter stainless steel surface was used. Test soil Bacillus subtilus with 6 g/l bovine serum albumin-simulated dirty conditions. Thirteen 1 cm² squares were demarcated on the test surface prior to inoculation. All squares were inoculated and allowed to dry prior to testing. Three 1 square centimeter areas on the test surface were swabbed prior to cleaning to obtain pre-values and assess initial titer. Ten surfaces were immediately swabbed after cleaning test for post-cleaning values. Results were recorded as “pass” if less than 5 colony forming units per square centimeter remained after cleaning and “fail” if greater than 5 colony forming units remained after cleaning.

Test 1	Microfibre cloth dampened with water and wiped over surface with pressure applied	Fail
Test 2	Hydrogen peroxide disinfectant cleaner sprayed on to completely saturate surface followed with one wipe with microfibre cloth	Fail
Test 3	Household bleach 10 to 1 dilution sprayed on to completely saturate surface followed by one wipe with microfibre cloth	Pass
Test 4	PCS Friction Pre Moistened Wiper. One pre moistened wiper was wiped over surface and allowed to air dry	Fail
Test 5	PCS Friction Spray. Surface was sprayed and wiped dry with clean paper towel.	Pass
Test 6	PCS Friction Pre Moistened Wiper. One wet wiper was used to wipe over entire surface once followed by wiping dry with clean dry cotton cloth.	Pass
Test 7	PCS Friction concentrate diluted 32 parts water 1 part cleaner. Solution was used to saturate microfibre cloth. Dampened microfibre cloth was wiped once over surface and then a dry microfibre cloth was used to dry surface.	Pass