

# TORAYSEE™ PCS 5000 OXIDIZING DISINFECTANT CLEANING PROCESS AND COST OF USING ONE TORAYSEE™ PER DAY.





## **PROCESS**

#### **Materials**

- Small oblong or square container with lid
- 250 mls of PCS 5000 Oxidizing Disinfectant/Disinfectant Cleaner
- Toraysee™ cloth
- Bucket with rinse water

### **PROCEDURE**

 Add 250 mls of PCS 5000 to the container, add Toraysee™ cloth and check the lid is secure, ensure the container has a workplace label.

#### To clean and disinfect with Toraysee™ cloth

- Remove lid from container
- Squeeze out liquid from Toraysee™ cloth
- Wipe over surfaces in one direction with damp Toraysee™ cloth

## These processes can be used for prolonged periods of time but common practice is to rinse Toraysee™ cloth at the end of use for the day and empty and rinse container. Water rinse Toraysee™ after use

 Toraysee™ Antimicrobial finishing process has proven to discourage microbial growth on fibres even after 60 hospital laundering cycles.

for the day, squeeze excess liquid from cloth and allow to air dry.

- Dampened with water only Toraysee™ has demonstrated the ability to remove greater amounts of ATP, bacteria and viruses than pre-moistened disinfectant wipes and split microfibre cloths.
- Toraysee™ after soaking in 1% sodium hypochlorite for 5 weeks removed 99.6% of soil as compared to 99.5% before treatment. Demonstrating Toraysee™ maintained excellent removal of organic soils even with prolonged presence of strong concentrations of sodium hypochlorite.

#### How to reuse

- Rinse cloth with water squeeze out liquid
- Replace cloth in PCS 5000 Oxidizing Disinfectant Cleaner
- PCS 5000 Oxidizing Disinfectant Solution disinfects Toraysee™ and saturates cloth for next use

## To clean delicate or chemically sensitive surfaces

- Remove Toraysee™ from PCS 5000 Disinfectant solution
- Squeeze out liquid
- Rinse cloth in water and squeeze out liquid from cloth
- Wipe delicate surfaces or equipment with damp Toraysee™

#### Cost of use - Based on 50 use applications per day. Toraysee™ cloth cost based on sixty days of use. Cost per day = .20Cost per day .20 Number of cloths used for sixty days PCS 5000 use per day 500 mls 2.85 Toraysee™ / PCS 5000 cost per day 3.05 Cost per day 5990 · 50 12"x12" wipes per day 22.00 = NUMBER OF WIPES USED IN SIXTY DAYS 3000 Cost per day 5987-6 · 7"x12" wipes per day 12.27 = NUMBER OF WIPES USED IN SIXTY DAYS 3000 Bucket saturation of microfiber cloths 3 L 8.88 Cost of microfibre cloths 50 required launder cost + = 8.34 Cost of cloths Number of cloths used sixty days 50 Split microfibre charged bucket system cost 17.22

Click here for a copy of validation study of one cloth per day process. PCS contracted CREMCO to perform six separate Quantitative Carrier Test #3 studies to validate Toraysee™ − PCS 5000 Oxidizing Disinfectant Cleaning Process in simulated real-world test to validate the process can.

per day

- (1) Remove large numbers of hospital pathogens.
- (2) Prevent the transfer of pathogens to previously uncontaminated surfaces.
- (3) Demonstrate that repeated use of the process that a single Toraysee™ cloth could be repeatedly used for extended periods of time.
- (4) Provide repeated test demonstrating PCS 5000 Oxidizing Disinfectant Cleaner with Health Canada approved label claim to kill C. difficile spore form can remove organic and inorganic soils from Toraysee™ without the need for any additional decontamination processes.

Study No.: PCS210426-01

Assessment of the Durability and Activity of PCS Toraysee™ Cleaning Cloths for Decontaminating Hard, Non-Porous Environmental Surfaces: Testing with Coronavirus 229E (ATCC VR-740), Murine Norovirus (Strain S99), and Clostrioides difficile spores(ATCC 43598) as representative Healthcare-Associated Pathogens

The objective of this study was to:

- a. Conduct laboratory-based testing on PCS Toraysee™ Cleaning Cloths for the microbial decontamination of hard, non-porous environmental surfaces representing those found in healthcare settings. The aim here was to evaluate the durability and efficacy of a cleaning/sanitizing process using PCS Toraysee™ Cleaning Cloths.
- b. Test a single PCS Toraysee™ Cleaning Cloth in multiple studies to evaluate the efficacy of the cloth when it is used over and over and is decontaminated using PCS 5000 after each use.

#### **TEST RESULTS**

Table 1,2,and 3 summarize the result of efficacy tests on 229E, MNV and C. difficile spores, respectively.

Table 1: 229E virus inactivating/removing activity using PCS Toraysee™ cloth.

	PFU/cm2			Percent		Average Percent	
	Control	Contamination	Transfer	Reduction	Transfer	Reduction	Transfer
Test 1	3,458	0	0	100*	0*	100	0
Test 2	8,292	0	0	100*	0*		

<sup>\*=</sup>No PFU were detected in the eluents tested.

Table 2: MNV virus inactivating/removing activity using PCS Toraysee™ cloth.

	PFU/cm2			Percent		Average Percent	
	Control	Contamination	Transfer	Reduction	Transfer	Reduction	Transfer
Test 1	71,111	0	0	100*	0*	100	0
Test 2	142,500	0	0	100*	0*		

<sup>\*=</sup>No PFU were detected in the eluents tested.

Table 3: C. difficile spores inactivating/removing activity using PCS Toraysee TM cloth.

	CFU/cm2			Percent		Average Percent	
	Control	Contamination	Transfer	Reduction	Transfer	Reduction	Transfer
Test 1	4.76 x10 <sup>6</sup>	0	0	100*	0*	100	0
Test 2	2.87 x10 <sup>6</sup>	0	0	100*	0*		

<sup>\*=</sup>No CFU were detected in the eluents tested.

#### Conclusions

The results of this study showed that, under the test conditions specified, PCS Toraysee™ cloth with PCS 5000 efficiently decontaminated the contaminated platform and also prevented the transfer of infectious virus and C. difficile spores to the clean platform. The PCS Toraysee™ cloth's integrity and efficacy also was not affected in 6 separate efficacy tests on the three microorganisms in two months.

The stability test also shows the potency of PCS 5000 did not dropped bellow the acceptable range (<5000 ppm) when the PCS Toraysee™ cloth was kept in PCS 5000 in a closed container for 10 days.