

# DISINFECTING THE FLOOR?

Pathogens are consistently introduced to the floor throughout the day by shoes, transport equipment such as wheelchairs and beds, treatment devices or computer carts, and non-slip patient socks that traverse the floors and frequently bring pathogens directly into a bed. More importantly, there is a consistent potential for cross-contamination on the floor.

## FLOOR MOP DISINFECTANT COMPARISON FINDINGS

	INITIAL	1 HOUR	3 HOURS	INITIAL	1 HOUR	3 HOURS
<b>The Advantex® Advantage</b>	Neutralizing QUATERNARY AMMONIUM Disinfectant reaching floor from test mop	Neutralizing QUATERNARY AMMONIUM Disinfectant reaching floor from test mop	Neutralizing QUATERNARY AMMONIUM Disinfectant reaching floor from test mop	Neutralizing CHLORINE Disinfectant reaching floor from test mop	Neutralizing CHLORINE Disinfectant reaching floor from test mop	Neutralizing CHLORINE Disinfectant reaching floor from test mop
<b>Advantex® Single-Use Mop</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>
<b>Competitor Single-Use Mop</b>	<b>PASS</b> <b>FAIL</b>	<b>FAIL</b>	<b>FAIL</b>	<b>PASS</b> <b>FAIL</b>	<b>FAIL</b>	<b>FAIL</b>
<b>Laundered Mop</b>	<b>FAIL</b>	<b>FAIL</b>	<b>FAIL</b>	<b>FAIL</b>	<b>FAIL</b>	<b>FAIL</b>

Pass/Fail grade is based on the Centers for Disease Control and Prevention's recommendations of 660 parts per million of quaternary compatibility ammonium disinfectant or 500 parts per million of chlorine disinfectant. All mops were placed in clean charging buckets with equal amounts of disinfectant. The original disinfectant was 660/500 parts per million, respectively.

## COMPARISON OVERVIEW

A CDC study found that quaternaries are good cleaning agents, but organic materials such as cotton can make them less microbicidal because of insoluble precipitates or cotton absorb the active ingredients, respectively.<sup>1</sup> This helps explain the poor performance findings of the competitor's single-use and laundered mops.

The Advantex® Single-use Microfiber Mop with patent-pending proprietary synthetic construction is compatible with all healthcare disinfectants, including quats, chlorine and peroxides. Advantex® mops are non-linting and USP 797 compliant. All of these factors support superior performance results.

## SOLUTION FOR CONTROLLING HAI PATHOGENS

Advantex® Single-use Microfiber Mops provide 100% of original-strength disinfectant from the charging bucket to the cleaning surface or floor.

<sup>1</sup>CDC website (<https://www.cdc.gov/infectioncontrol/guidelines/disinfection/disinfection-methods/chemical.html>)



# ARE YOU WASTING DISINFECTANT?

There are several challenges to consider when using a charging bucket.

1. How much disinfectant is required to properly charge the mops?
2. How much of that charging chemistry is trapped in the mop and not utilized?
3. How long can mops charge without the chemistry binding to the mops and neutralizing your disinfectant?

## FLOOR MOP ABSORPTION COMPARISON

The Advantex® Advantage	Amount of Disinfectant to charge 10 mops	% Solution Release	% Solution Waste	After Charging Neutralizing QUATERNARY AMMONIUM Disinfectant	After Charging Neutralizing CHLORINE Disinfectant
Advantex® Single-Use Mop	0.5 gal	96%	4%	<b>PASS</b> (660 ppm)	<b>PASS</b> (500 ppm)
Competitor Single-Use Mop	0.5 gal	59%	41%	<b>FAIL</b> (<660 ppm)	<b>FAIL</b> (<500 ppm)
Laundered Mop	2.5 gal	38%	62%	<b>FAIL</b> (<660 ppm)	<b>FAIL</b> (<500 ppm)

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## COMPARISON OVERVIEW

Laundered mops require much more disinfectant because of their solution absorption rate; however, they release significantly less solution. Single-use flat mops require minimal disinfectant for charging. The Advantex® Single-use Microfiber Mop releases 37% more disinfectant than the competitor's single-use mop and covers 250 square feet of floor in one typical use. Result: Huge savings on disinfectant.

## SOLUTION FOR DISINFECTANT EFFICACY

The Advantex® Single-use Microfiber Mop with synthetic construction requires less charging disinfectant, releases more disinfectant onto the cleaning surface, and does not neutralize the chemistry. This means you use less disinfectant, and the chemistry remains full strength while charging all day, saving lives through efficacy.

<sup>1</sup>CDC website (<https://www.cdc.gov/infectioncontrol/guidelines/disinfection/disinfection-methods/chemical.html>)

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