

Table 1. Biocidal properties of copper-oxide impregnated fabrics.

Type of copper treated fiber	Percent of copper treated fibers in fabric (w/w)	Type of organism tested*	Name of organism tested	Time of exposure	Percent reduction of organism titer	Organism related maladies
Plated cellulose	10	Gram + bacteria	<i>Staphylococcus aureus</i>	1 h	>99.8	Systemic and skin infections
	10	Gram + bacteria	Methicillin resistant <i>Staphylococcus aureus</i> (MRSA)	1 h	>99.5	Hospital acquired infections
	10	Gram + bacteria	Vancomycin resistant <i>Enterococci</i> (VRE)	1 h	99.5	Hospital acquired infections
	10	Gram – bacteria	<i>Escherichia coli</i>	1 h	>99.9	Food poisoning
	10	Fungi	<i>Candida albicans</i>	2 h	>99	Athlete's foot; opportunistic infections
	10	Virus	Human immunodeficiency virus type 1 (HIV-1)	20 min	>99.9	AIDS
	20	Mite	<i>Dermatophagoides farinae</i>	46 days	100	Allergies, Asthma
	100	Mite	<i>Dermatophagoides farinae</i>	5 days	100	Allergies, Asthma
	3	Gram + bacteria	<i>Staphylococcus aureus</i>	4 h	>99.9	Systemic and skin infections
	5	Fungi	<i>Candida albicans</i>	2 h	>99.9	Athlete's foot; opportunistic infections
Polyester	10	Gram + bacteria	<i>Listeria</i>	1 h	>99.8	Food poisoning
	10	Gram – bacteria	<i>Salmonella</i>	2 h	>98.5	Food poisoning
	10	Gram – bacteria	<i>Escherichia coli</i>	1 h	>99.9	Food poisoning
	10	Virus	Cytomegalovirus (CMV)	20 min	>99.9	Mononucleosis-like syndrome
	10	Virus	HIV-1	20 min	>99.9	AIDS
	3	Gram + bacteria	<i>Staphylococcus aureus</i>	4 h	>99.9	Systemic and skin infections
	3	Gram – bacteria	<i>Escherichia coli</i>	4 h	>99.9	Food poisoning
Nylon	3	Fungi	<i>Candida albicans</i>	4 h	>98.7	Athlete's foot; opportunistic infections
	3	Virus	HIV-1	20 min	>99.9	AIDS
	10	Gram + bacteria	<i>Staphylococcus aureus</i>	2 h	>99.9	Systemic and skin infections
	10	Gram – bacteria	<i>Escherichia coli</i>	1 h	>99.9	Food poisoning
	10	Fungi	<i>Candida albicans</i>	2 h	>99.9	Athlete's foot; opportunistic infections
	10	Virus	HIV-1	20 min	>99.9	AIDS