Antimicrobial Fabrics

SINTX Technologies, Inc. has focused on developing a high quality medical-grade silicon nitride (SN), historically used to produce FDAcleared implantable devices. We have also developed a powdered form of SN that can be impregnated into fabrics such as nonwoven spunbond polypropylene (SBPP).

SN powder and impregnated fabrics have demonstrated antiviral, antibacterial, and antifungal properties in independent laboratory tests performed in accordance with industry standard test methods.

Antimicrobial Performance

During independent laboratory testing, SN-impregnated SBPP inactivated >99.999% of S. aureus after a 24-hour contact time, 97.9% of S. aureus after 1 hour, and >96% of SARS-CoV-2 virus after 10 and 30 minutes.

Antiviral Data

ISO 18184, 10-minute contact time

1.00E+07 1.00E+06 1.00E+05 1.00E+04 L 1.00E+03 1.00E+02 1.00E+01 1.00E+00 Untreated SBPP control Silicon nitride

impregnated SBPP



ASTM E2149, 1-hour contact time

Inoculum only

Antibacterial Data

1.0E+08

1.0E+07 1.0E+06

1.0E+05

1.0E+03

1.0E+02

1.0E+01

1.0E+00

CFU/carrier 1.0E+04

AATCC 100, 24-hour contact time



Untreated SBPP

control

Silicon nitride

impregnated SBPP

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Untreated Polypropylene



Silicon Nitride Impregnated SBPP





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