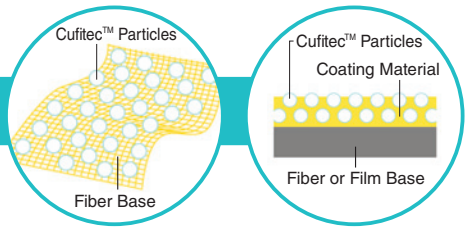
Cufitec™

Anti-viral and anti-bacterial materials developed with Cufitec™ can be utilized in a wide variety of applications.

Cufitec™ is an anti-viral and anti-bacterial technology utilizing nanoparticles of a monovalent copper compound, and a patented technology of NBC Meshtec Inc.

Coating on Base Material



Cufitec™ treated non-woven fabric (Rayon, Cotton, PP)

- Cufitec™ particles are fixed on to rayon, cotton, PP, or other non-woven fabric.
- SEK mark certification has been acquired for Antiviral Finished Product, Antibacterial Finished Product, and Antimicrobial Finished Product.

* Please contact us regarding Cufitec™ treatment onto fabric materials specified by the customer.

Examples of use : Masks, protective clothing, bed sheets, filters, cleaning wipes, etc.

SEK Antiviral Finished Product

SEK Antibacterial Finished Product

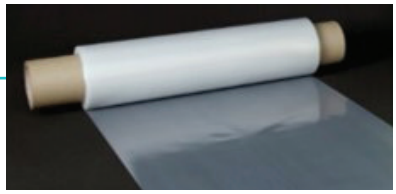
SEK Antimicrobial Finished Product

Product name	Basis weight (g/m²)	Actual width (mm)	Effective width (mm)	Roll length (m/R)
Cufitec™ treated Rayon Non-Woven Fabric (resin bond)	20	1,200	1,150	Approximately 1,900
Cufitec™ treated Rayon Non-Woven Fabric (resin bond)	40	1,350	1,350	Approximately 950
Cufitec™ treated Cotton Non-Woven Fabric (spun lace)	80	1,100	1,000	Approximately 850
Cufitec™ treated PP Non-Woven Fabric (spun bond)	20	1,000	1,000	Approximately 1,900

Cufitec™ treated PET film

Cufitec™ treatment is applied to one side.

* The monovalent copper makes film slightly less transparent.
* Please contact us regarding Cufitec™ treatment onto films specified by the customer.
* SEK mark certification does not apply to Cufitec™ treated PET films.

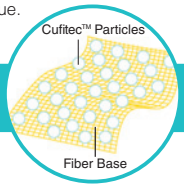


Examples of use : Partitions, face covers, touch screens, door handles, handrails, switches, etc.

Thickness (μm)	Actual width (mm)	Effective width (mm)	Length	
			Actual length (m/R)	Effective length (m/R)
50	500	480	Approximately 930	900

Effects against a wide range of microorganisms such as enveloped viruses, non-enveloped viruses, bacteria, etc. have been confirmed.

* These datas are for references based on the actual result measured at an internal laboratory, and these are not guaranteed value.



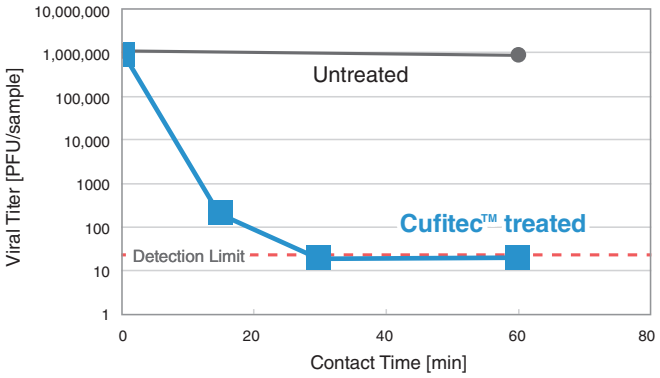
Cufitec™ Treated Non-Woven Fabric

Anti-viral performance

Test method

A suspension of non-enveloped virus was dropped onto Cufitec™ treated Rayon Non-Woven Fabric, and the plaque assay method was used to evaluate viral titer at each contact time.

* An internal test method based on JIS L 1922:2016



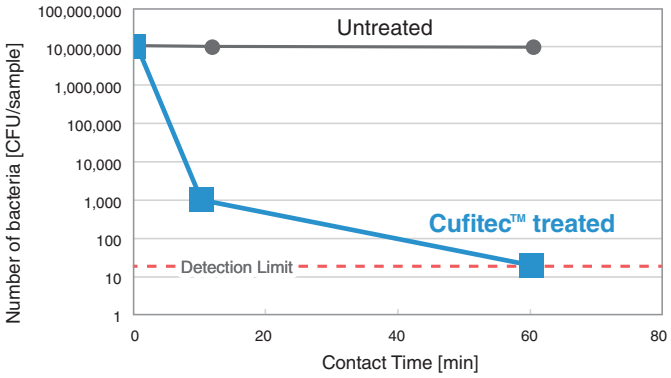
99.99% or more reduction in 30 minutes

Anti-bacterial performance

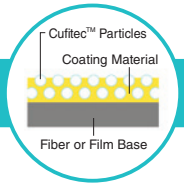
Test method

A suspension of gram-negative bacteria was dropped onto Cufitec™ treated Rayon Non-Woven Fabric, and the plate colony count method was used to evaluate the number of bacteria at each contact time.

* An internal test method based on JIS L 1922:2016



99.99% or more reduction in 60 minutes



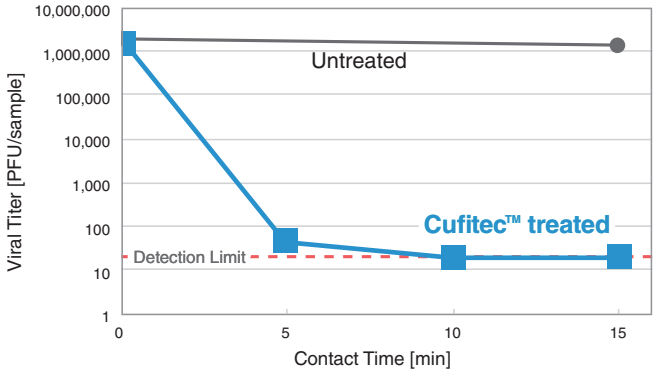
Cufitec™ Treated PET Film

Anti-viral performance

Test method

A suspension of non-enveloped virus was dropped onto a Cufitec™ treated PET film, and the plaque assay method was used to evaluate virus viral titer at each contact time.

* An internal test method based on JIS L 1922:2016



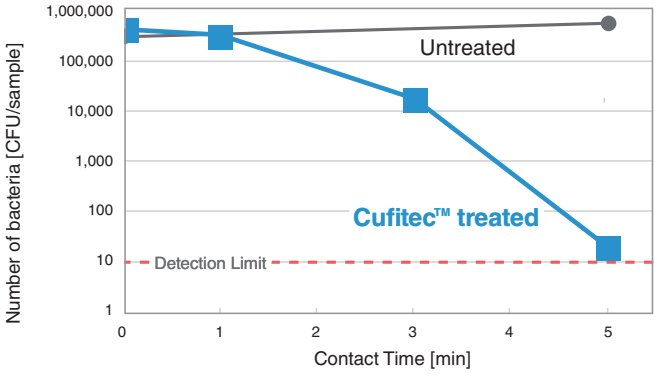
99.99% or more reduction in 5 minutes

Anti-bacterial performance

Test method

A suspension of gram-negative bacteria was dropped onto a Cufitec™ treated PET film, and the plate colony count method was used to evaluate the number of bacteria at each contact time.

* An internal test method based on JIS L 1922:2016



99.99% or more reduction in 5 minutes

NBC Meshtec Inc.

2-50-3 Toyoda, Hino, Tokyo 191-0053, Japan

TEL : +81(42)582-2496 FAX : +81(42)582-4440 E-mail : cufitec_nbc@nisshin.com