

QUEST SANIGUARD AM

Invisible Shield • Invisible Protection

*Advanced Antimicrobial Coating for
Everyday Hygiene and Longevity*

- ✓ **Broad-spectrum protection against bacteria, fungi, algae, and yeasts**
- ✓ **Non-leaching, durable & wash-resistant**
- ✓ **Safe, eco-friendly, and formaldehyde-free**
- ✓ **Retains freshness, prevents odor, and extends product life**

A Durable Anti-microbial Specialty aid to impart broad spectrum, bio-static activity to the surface of a wide variety of substrates. It is non-leaching, non-migrating & is not consumed by microorganisms. Effective against gram positive & gram-negative bacteria, fungi, algae & yeasts.



FEATURES

- Prevents hard water staining
- It is durable anti-microbial imparting broad spectrum, bio-static activity to the surface of wide variety of substrates.
- It is non-leaching & non-migrating & is not consumed by microorganisms.
- It is effective against gram +ve and gram -ve bacteria, fungi, algae & yeasts.
- Anti-microbial action is exhibited on contact in the presence of moisture.
- Prevents deterioration & discoloration caused by bacteria, fungi, algae & yeasts.
- Prolongs the life of an article by inhibiting the growth of bacteria and mildew.
- It provides hygienic freshness. It resists odors through chemical protection
- It retains the freshness of an article by inhibiting or resisting the growth of odor causing bacterial and mildew (fungus).



PROPERTIES

- Pale yellow to Amber Coloured liquid
- 4.5-5.5
- Non-ionic
- Silane Quats



APPLICATIONS AREAS

Quest Saniguard AM a durable anti-microbial can be used to imparting broad-spectrum antimicrobial protection to substrates for the following application:

- Air filters for furnaces, airconditioners, airpurification devices, automobiles, re-circulation air handling systems.
- Airfilters/materials. Aquarium filter material
- Bed sheets, blankets and bed spreads
- Carpet and draperies. Fiber fill for upholstery, sleeping bags, apparels etc. where the fiber is cotton, natural down, nylon, polyester, jute, rayon or wool.
- Fiber glass duct board.
- Mattress pads and ticking
- Men's underwear and outer wear
- Non-woven disposable diapers
- Non-woven PE
- Outer wear apparel
- Pre-moistened towels & tissue wipes
- Athletic & casual shoes
- Shoes insoles
- Shower curtains
- Towelling made of 100% cotton, 100% PE & blends of the two fibers
- Umbrellas
- Upholstery made of acetates, acrylic, cotton, fiber glass, nylon, polyester, polyethylene, polyolefin, polypropylene, rayon, spandex, vinyl & wool.
- Vacuum cleaner bags & filters
- Vinyl paper – wall paper for non-food contact surfaces
- Women's hosiery
- Women's intimate apparel



APPLICATION

Can be applied by:

1. Padding 2. Soaking 3. Spraying 4. Fogging 5. Dipping 6. Brushing

After applying the anti-microbial agent the substrate can then be cured at temperatures from ambient to a maximum of 160°C to effect complete condensation of Silanol groups and to remove water from hydrolysis. Optimum application and drying conditions such as time and temperature should be determined for each application before use in a commercial process.



RESISTANCE TESTING

- Antimicrobial resistance was evaluated as per AATCC 100
- Antifungal Resistance was evaluated using AATCC 30
- Durability study-AATCC 135

AATCC 100 Test on Cotton fabric with Saniguard AM by padding

Product	Conc g/l	S Aureus % Reduction			E Coli % Reduction		
		Initial	10wash	20wash	Initial	10wash	20wash
Quest Saniguard AM	20	98	90	68	94	92	65
	30	100	91.56	87.32	99	93.5	85.07
	40	100	94.23	90.10	99	94.46	88.35

AATCC 100 Test on Cotton fabric with Saniguard AM by exhaust

Product	Conc % owf	S Aureus % Reduction			E Coli % Reduction		
		Initial	10wash	20wash	Initial	10wash	20wash
Quest Saniguard AM	0.5	98	92	80.37	98	90	72.72
	1.0	100	94	85.45	99	91.87	80.34
	2.0	100	95.56	87.32	99	93.5	85.07
	3.0	100	96.23	90.10	99	94.46	88.35

Antifungal resistance with Aspergillus Nigar on cotton by pad application

Visual / Microscopic Assessment report

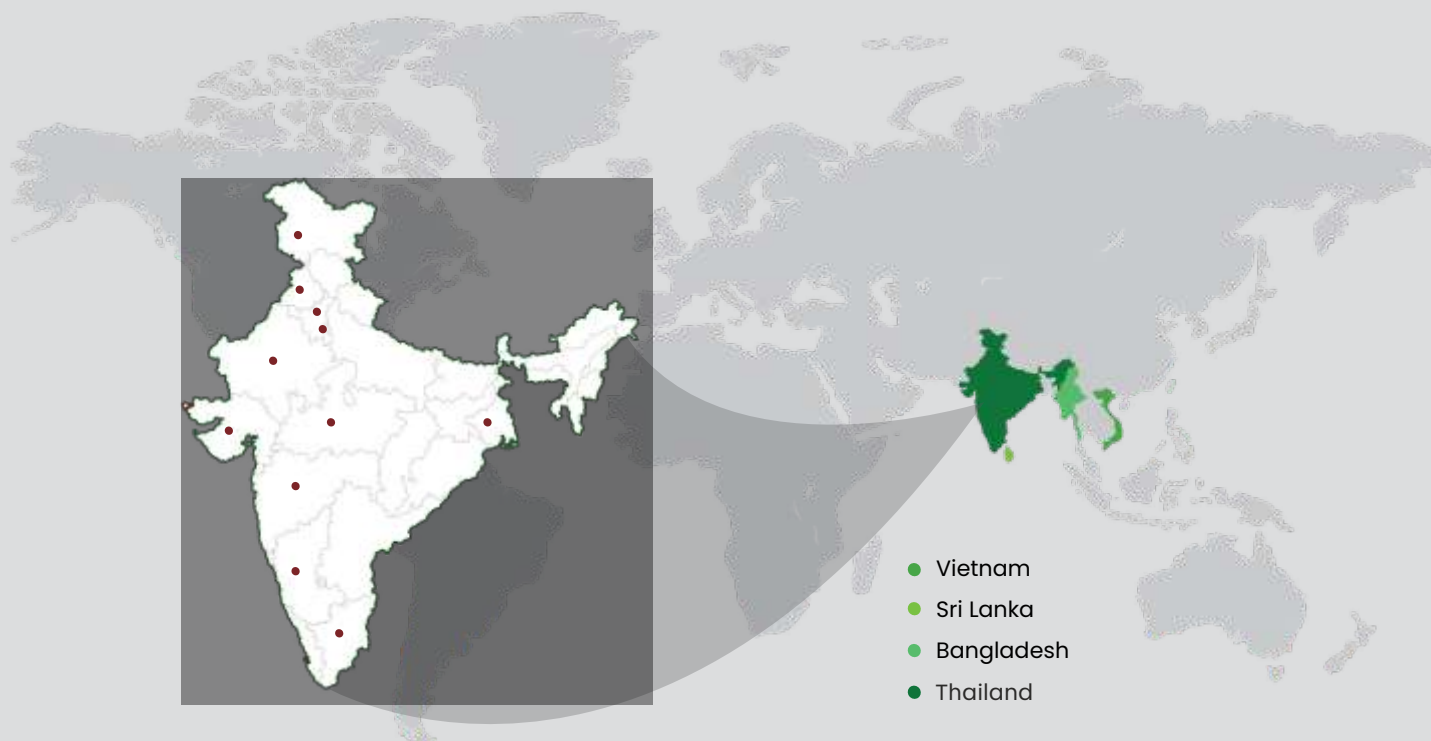
Sample description	Rating/Zone of Inhibition
Cotton fabric treated-50g/l of Saniguard AM	0

The percentage of surface growth of Aspergillus Nigar is rated as follows:

Rating No growth:0
 Trace of Growth(<10%) : 1
 Light Growth(10-35%) : 2
 Medium Growth(30-60%) : 3
 Heavy Growth(60% to complete coverage) : 4

Storage: Stable under normal conditions. **Packing:** Available in 50 kg HDPE Carboys

Our Global Footprint



Disclaimer

The information given herein and otherwise supplied to users is based on our general experience and where applicable, on the results of tests on samples of typical manufacture. However, because of the many factors, which are outside our knowledge and control, which can affect the use of these products, we cannot accept liability for any injury, loss or damage resulting from reliance upon such information.



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