



Sarex Chemicals

(A Divn. Of Saraf Chemicals Pvt. Ltd.)

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PRODUCT LITERATURE

SARAGUARD-5700

Product Information

Saraguard-5700 is a methanol free antibacterial and antiviral agent which is suitable for all types of textile substrate. Saraguard-5700 can be applied by padding, exhaust, soaking and spraying methods. Saraguard-5700 is non-leaching antimicrobial agent and is durable to multiple home launderings. It shows antibacterial activity by contact mechanism. Saraguard-5700 shows excellent antimicrobial activity on non-woven substrates also. Saraguard-5700 will provide protection against wide range of Gram positive and Gram negative bacteria's and wide range of viruses. Saraguard-5700 is suitable for application personal protective equipment/ clothing (PPE) used in medical and other textile industries.

Key Features & Benefits

Key features -----	Benefits -----
Non-leaching	Durable to multiple home launderings
Broad spectrum	Works on all types of microbes such as Staphylococcus aureus, Escherichia coli, Klebsiella pneumoniae, Methicillin - Resistant Staphylococcus aureus (MRSA), Aspergillus Niger
Universal	Suitable for cotton, polyester, polyamide, acrylic and polypropylene non woven
Concentrated	Moisture content less than 1%

General Characteristics

Physical appearance	:	Colourless to yellow liquid
Ionic Nature	:	Cationic
pH of 1% solution	:	4.5 +/-1
Miscibility	:	Miscible with water
Compatibility	:	Compatible with cationic and nonionic products
Stability	:	Stable to dilute acids and unstable to dilute alkalies



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Application

Padding process

Saraguard-5700	: 15-40 g/l
Pick-up	: 65-70 %
Bath pH	: 5.0-6.0
Drying	: 140-160 deg.C, 1 min. (all substrates)
	: 120-130 deg.C, 60 sec. (polypropylene)

Exhaust process

Saraguard-5700	: 1-4 %
Bath pH	: 5.0-6.0
Bath Temp.	: 30-40 deg.C
Time	: 15-20 mins.

Soaking Method

Prepare 1-4% solution of Saraguard-5700 depending on the durability required in a vessel. Introduce the fabric in the vessel containing Saraguard-5700 solution and soak the fabric for 20-30 minutes at 30-40deg. C with intermittent stirring. Unload the fabric and hydro extract it to remove excess liquor, without rinsing. Dry the fabric at approximately 140°C

Spraying Method

Prepare 2-6% solution of Saraguard-5700 depending on the durability required in a vessel. Spray the solution on the fabric using a spray gun then dry the fabric at approximately 140°C

- * The product must be diluted with water and kept standing for 60 minutes before application on any substrates. This helps in proper activation of the product and thus increases the reactivity and durability of the product
- * For application in medical textiles the dosage of the above chemical has to be optimized depending on the GSM of the fabric and (%) Expression
- * Concentration of the above product to be taken on the basis of durability requirement.
- * Pre-trials are recommended.

Precautions:

The product is supplied in the anhydrous form. The product to be diluted with water just before a treatment only when ready for processing of textiles. Once added to the pad bath / exhaust bath the stability of such a bath is limited; due to hydrolysis of the active ingredients in our antimicrobial leading to self cross linking. Hence, padding bath containing Saraguard-5700 should be used up in the shortest time possible, as extended storage of such bath would lead to formulation of insoluble particles which may settle as precipitation and reduces performance.

Kindly note that the product is readily dilutable and stored in anhydrous polar solvents like methanol, ethanol, iso-propyl alcohol or low molecular weight glycol like MEG or DEG.



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Test Results:

- Cotton, polyester and their blended fabrics finished with 60 g/l Saraguard-5700 shows 80-95% reduction in bacterial count by AATCC-100 after 20 Home Launderings.
- Polyamide and acrylic fabrics finished with 60 g/l Saraguard-5700 shows 95-100% reduction in bacterial count by AATCC 100 method.

Instructions For Dilution

Procedure to prepare 5%, 10% & 20% Saraguard-5700

	Dilution		
	5%	10%	20%
Saraguard-5700	12.5	25	50
Butyl Di-glycol	87.5	75	50
Total :	100	100	100

- Take BDG in a dry vessel
- To this gradually add Saraguard-5700 under constant stirring
- Continue stirring till homogenous product is obtained

Note:

Even one drop of water will polymerize the material so, care should be taken that there should not be water at any stage of dilution or during packing.

Precautions

- Storage : Store in cool, ventilated shed away from heat and direct sunlight. Storage temperature should not exceed 35 deg C. Close lids firmly to avoid contact with air and moisture.
- Shelf Life : 12 months from the date of manufacturing, if stored under controlled conditions.

[The above information is given in good faith and is without warranty]
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