

CHT PROTECT H-BoiG

Character	Antiviral and antibacterial textile treatment for all kind of fibres
Chemical Character	Aqueous polymer dispersion containing silver
Appearance	White - light gray cloudy liquid
Ionic Character	Cationic
pH Value (at 20°C)	2.0 - 4.0
Specific Weight at 20 °C	0,95 - 1,10 g/cm ³
Stabilities	<p>CHT PROTECT H-BoiG is stable to hard water, acids, alkalis and electrolytes in the usual industrial concentrations.</p> <p>Usually, CHT PROTECT H-BoiG can be easily combined with the products applied in finishing. However, preliminary tests to check the bath stability are recommended.</p> <p>The product is sensitive to frost. Store at the temperatures between 5 - 40°C.</p> <p>CHT PROTECT H-BoiG and its liquors have to be protected from light exposure.</p>
Storability	The shelf life of CHT PROTECT H-BoiG is at least 6 months, if stored properly (5 - 40 °C) in closed original packages (drums/containers). It is recommended to stir well before use.

Please note:

Use biocides safely. Always read the label and product information before use.

Prior to using our products please make sure that the intended use complies with the legal requirements. Please note that the application of our product as well as the use of the finished material do not lead to undesired effects which necessitate an official notification or registration.

Properties

CHT PROTECT H-BoiG has been specially developed to provide washing-resistant antimicrobial properties to textile materials. The synergy of special polymer and silver technologies, and the COPE system that the product contains, bring antimicrobial effect to textile materials in minutes even at low amount of use.

CHT PROTECT H-BoiG is an antiviral and antibacterial agent for all kind of fibres, especially suitable for nonwoven textiles for medical use such as protective face masks and surgical gowns.

CHT PROTECT H-BoiG can be applied for antimicrobial finishing by using both padding and exhaust processes. The product offers the following advantages:

- Good bath stability as long as protected from light
- High washing resistance. It has been proven by testing that the product finished with CHT PROTECT H-BoiG retains its antimicrobial effect up to 20 washings.
- Good handling can be developed with the finishing materials recommended in applications.

CHT PROTECT H-BoiG is also suitable for printing and coating applications. Before use, it should be checked whether the recipe content is compatible with the cationic CHT Protect H-BoiG.

Application Technique

Dilution Instructions

CHT PROTECT H-BoiG should be stirred very well before each use. It is readily mixable with water. Soft water has to be pre-set first and CHT PROTECT H-BoiG is added while stirring to guarantee a good distribution.

Application Fields

CHT PROTECT H-BoiG, can be applied on all types of fabric and non-wovens like face masks, air filters, medical nonwovens (e.g. surgical gowns, drapes etc.), work wear in hospitals and care facilities, bed sheets and liners, curtains, carpets and room furnishings as well as fabrics in daily use like terry towels and apparel in general. The product is applicable in the field of sportswear, outdoor clothing, functional underwear, workwear, home textiles and technical textiles.

CHT PROTECT H-BoiG is a product used for antimicrobial finishing. The product does not have a toxic effect on human health. Due to its nano-sized silver content, a very good efficiency is obtained in applications with CHT PROTECT H-BoiG. Excellent antimicrobial effect is obtained even at low amount of use. CHT PROTECT H-BoiG is suitable for use in washing resistant antimicrobial textile applications and has been proven to retain its antimicrobial effect for up to 20 washings.

Recipe recommendation

The application quantities of the products in a recipe depend on many parameters such as the fibre type (e.g. PES, PA or CO), technical application possibilities (e.g. liquor pick-up) and demands (e.g. wash fastness). To determine an optimal recipe for a specific application preliminary trials have to be carried out.

The product itself has an acidic pH value. Therefore It is not recommended to make pH adjustments with acids (acetic acid, citric acid, etc.) in application recipes.

Prior to the application with other finishing agents (combination recipes), compatibility tests have to be carried out.

Padding Process for antiviral finishing:

CO,PES,PA..:

100,0-250,0 g/l CHT PROTECT H-BoiG
10,0-20.0 g/l TUBINGAL MHQ
Pick-up 60-80 %
Drying/curing 150-160 °C

Exhaust Process:

CO,PES,PA..

% 10,0-20,0 CHT PROTECT H-BoiG
%1,0-2.0 TUBINGAL MHQ

20 min at 40 °C
Drying/Curing 150-150°C

it is imperative to run pretrials when using CHT-PROTECT H-BoiG due to the multitude of machines with high liquor turbulence (eg in jets, cheese dyeing machines),

For antibacterial activity application amount could be reduced

Padding Process for antibacterial finishing:

10,0 -30,0 g/l CHT PROTECT H-BoiG
10,0-20.0 g/l TUBINGAL MHQ/HQS

Pick-up 60-80 %
Drying/Curing 150-160°C

Since the product is sensitive to light, it is recommended that to use CHT PROTECT H-BoiG containing liquors as quickly as possible. Long-term waiting should be avoided.

Waste Disposal

The packaging units have to be emptied completely. The legal requirements for the waste disposal have to be observed.

Important Note

The antiviral activity of any textile must be determined individually (e.g. by testing according to ISO 18184). CHT can assist in recommending accredited test institutes that can perform these tests.

Information on safety regulations can be found in the safety data sheets of this product.

We reserve the right to modify the product and technical leaflet.

Our department for applied technique is always at your service for further information and advice.

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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