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## DENIMCOL CLEAN-SMX 2

<b>Character</b>	Auxiliary to reduce backstaining in denim washing processes
<b>Chemical Character</b>	Combination of non-ionic emulsifiers and high polymer compounds
<b>Appearance</b>	Milky-turbid, white to yellowish, slightly viscous emulsion
<b>Ionic Character</b>	Non-ionic
<b>pH Value of a 10 % Solution</b>	5.0 – 7.0
<b>Specific Weight at 20°C</b>	Approx. 1.0
<b>Stabilities</b>	<p>DENIMCOL CLEAN-SMX 2 is very sensitive to frost; after the impact of temperatures around the freezing point irreversible changes will occur.</p> <p>The product is sensitive to temperatures as of 40 °C. Changes will disappear again after stirring thoroughly.</p>
<b>Storability</b>	<p>Store in closed original containers at temperatures between +5 °C and +40 °C. Protect from frost and excessive heat.</p> <p>Stored properly in closed original containers, the product will hold for at least 12 months.</p> <p>Stir up before use.</p>

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## Properties

DENIMCOL CLEAN-SMX 2 is a highly efficient auxiliary to reduce the backstaining in denim washing processes such as desizing and stonewashing.

DENIMCOL CLEAN-SMX 2 consists of two adjusted components:

- The hydrophilic polymer acts as a protective shield on the fabric and prevents indigo and other dirt particles from depositing.
- The special surfactants have an outstanding dispersing effect towards the detached indigo and other dirt particles, which prevents backstaining of the fabric.

DENIMCOL CLEAN-SMX 2 hardly loses its effectiveness in the presence of hard water.

DENIMCOL CLEAN-SMX 2 is no enzyme poison. It can be easily applied in combination with amylases or cellulases.

## Application Technique

### Diluting Instructions

DENIMCOL CLEAN-SMX 2 is water-miscible at any ratio.

### Application Fields

DENIMCOL CLEAN-SMX 2 can be applied in every treatment phase on blue denim articles.

When desizing blue denim articles very high amounts of indigo are already detached which stain weft threads, inside pockets as well as labels. DENIMCOL CLEAN-SMX 2 leads already in this treatment step to a clear reduction of backstaining.

The application of DENIMCOL CLEAN-SMX 2 in stonewashing or enzyme washing also leads to a reduced backstaining.

Depending on the soiling behaviour of a fabric DENIMCOL CLEAN-SMX 2 can be used in one or several treatment steps.

### Recommendation for Use

The application amounts depend on the amount of dirt particles in the liquor. 0.5 to 1.0 g/l are normally sufficient. Overdosing is to be avoided.

### Recipe Proposals

#### Enzymatic desizing of denim articles

	Liquor ratio	1 : 6 - 1 : 8
BEISOL T 2090-G	1.0 - 1.5	%
DENIMCOL CLEAN-SMX 2	0.5 - 1.0	g/l
Treatment temperature:	40 °C	
Treatment time:	10 min	
Rinse		

#### Stonewash

	Liquor ratio	1 : 4 - 1 : 6
BEIZYM NGS	0.4 - 1.2	%
DENIMCOL CLEAN-SMX 2	0.5 - 1.0	g/l
pH Value:	6.0 – 8.0	
Treatment temperature:	45 °C	
Treatment time:	30 - 90 min	
Rinse	warm and cold	
Tumbler drying	> 85 °C	

### Enzymatic stop

To stop the activity of any residual enzyme remaining on the fabric we recommend the immediate complete drying at temperatures > 85 °C.

If the fabric is to be stored for a longer time in wet or damp condition, an enzymatic stop should be effected

- by increasing the pH value in the treatment bath to 9.0 – 10.0
- by increasing the temperature of the treatment bath to 80 – 85 °C

**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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