
CHT DISPERGATOR XHT S

Character	Dispergator and levelling agent for dyeing polyester and blends; simultaneously a dispersing agent for oligomers.
Chemical Character	Composition of polyglycol ether derivates
Appearance	Clear, yellow liquid
Ionic Character	n/a
pH Value of a 10 % Solution	5.0 - 8.0
Specific Weight at 20 °C	~1.05 g/cm ³
Stabilities	CHT DISPERGATOR XHT S is not sensitive to frost.

Properties

CHT DISPERGATOR XHT S stands out for a very good dispersing and levelling power. It promotes the fine distribution and thus the migration of disperse dyes over the whole temperature range and prevents dye agglomerations. Its extraordinary property is the stabilisation of the dispersion. Problems with unlevelness due to a lack in the dispersion stability can be solved by CHT DISPERGATOR XHT S.

Moreover, CHT DISPERGATOR XHT S has the property of dispersing oligomers. CHT DISPERGATOR XHT S prevents the crystallization and precipitation of the oligomers. Thus, they remain finely dispersed and can be removed. Greyings are prevented and cloggings of pipe systems and pumps are minimized.

If dyeing is reductively after-treated, we recommend applying CHT DISPERGATOR XHT S also in this bath to remove residual oligomers.

The fastness to light of polyester dyed with CHT DISPERGATOR XHT S is not impaired.

Application Technique

Diluting Instruction

CHT DISPERGATOR XHT S is diluted with cold water before being added to the treatment liquors.

Application Fields

CHT DISPERGATOR XHT S can be applied on all common dyeing machines for dyeing polyester.

CHT DISPERGATOR XHT S has also a dispersing effect on anionically soluble dyes. Therefore, it is successfully applied when dyeing fiber blends made of polyester and wool, cellulose fibers or polyamide.

CHT DISPERGATOR XHT S may be applied as dispersing agent for oligomers.

Recommendation for Use

The application quantities of CHT DISPERGATOR XHT S with a liquor in the dye bath are generally as follows:

Loose stock / yarn:

1.0 – 1.5 % CHT DISPERGATOR XHT S (for medium-dark colors)
1.5 – 2.5 % CHT DISPERGATOR XHT S (for light colors)
possibly additionally on the yarn 0.5 % EGASOL MD (migration agent)

HT beam

1.5 – 2.5 % CHT DISPERGATOR XHT S
1.0 - 2.0 % EGASOL MD (migration agent)

Continuous:

2.0 - 5.0 g/l COLORCONTIN SAN (wetting agent)
5.0 - 20.0 g/l MIGRASOL SAP (migration inhibitor)
2.0 - 3.0 g/l CHT DISPERGATOR XHT S

Jet:

0.1 - 0.3 % KOLLASOL CDS (deaerator)
1.5 - 3.0 % CHT DISPERGATOR XHT S

The predissolved product is added to the warm dyeing liquor at 50 - 60 °C together with the other chemicals and auxiliaries. After a short pre-run the disperse dyes are added. Then, heat up to 80 - 90 °C. After having achieved this temperature, heat up at a reduced rate until a dyeing temperature of 130 °C is reached. The dyeing time depends on the colour depth and is

20 - 30 min with pale dyeing
30 - 45 min with medium and dark dyeing.

Application in the reductive aftertreatment bath

1.0 - 3.0 % CHT DISPERGATOR XHT S
3.0 - 5.0 ml/l caustic soda 38 ° Bé
2.0 - 4.0 g/l hydrosulphite

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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