

BEIXON Q

Character	Synergetic mix of biodegradable sequestering agents for continuous and discontinuous pretreatment
Chemical Composition	Polycarboxylic acids and special polymers
Appearance	Colourless to light yellow, clear liquid
Ionic Character	Anionic
pH Value of a 10 % Solution	4.0 - 6.0
Specific Weight at 20°C	Approx. 1.2
Stabilities	<p>BEIXON Q as well as aqueous solutions made from it are stable to alkali and reduction agents in the usual concentrations.</p> <p>The product is sensitive to frost to a certain extent. Changes occurring at low temperatures disappear after warming up the product and stirring it thoroughly.</p>
Storage	On proper storage in closed original containers, the product is stable for at least 12 months

Properties

BEIXON Q is part of a pretreatment concept which was developed for cleaning and extracting cellulose fibres which are strongly contaminated with heavy metals. Together with our CONTAVAN ICE it contributes to a safe pretreatment and an enormous increase in the whiteness degree. In many cases the formation of holes and fabric damage can be reduced by using BEIXON Q.

BEIXON Q has a very high sequestering and dispersing capacity towards alkaline earth and heavy metal ions in neutral to slightly acid treatment liquors. The product is therefore particularly suited for the application in enzymatic desizing and in neutral washing processes. The application of BEIXON Q in the neutral to slightly acid medium leads to a good removal of alkaline earth and heavy metal ions. Moreover, pigment soiling is removed due to the excellent dispersing properties of the product.

The precleaning of the fibre with BEIXON Q and a subsequent bleaching process with CONTAVAN ICE increase the whiteness degree, which may help save 30 – 50 % peroxide depending on the kind of fabric. Thus, the product contributes to a reduced fibre damage. In addition, BEIXON Q can be applied in bleaching and scouring liquors for removing heavy metals.

The additional use in pad steam processes minimizes alkaline earth deposits on the guide rollers and plaiting down devices. Thus, the cleaning cycles in the washing boxes and steamer can be shortened and reduced to a great extent.

The product is easily biodegradable and free from phosphorus and can therefore be applied when extremely strict limits must be met with regard to the introduction of phosphate into waste water.

Application Technique

Diluting Instructions

BEIXON Q is liquid and can be dosed and mixed with cold and hot water at any ratio. The product can also be added to the treatment liquors without being dissolved before.

Application Fields

BEIXON Q is mainly used in washing and desizing liquors.

The product has not only a sequestering effect but also improves the soil suspending property in washing liquors.

BEIXON Q has a distinct threshold effect and is thus capable of binding even overstoichiometric quantities of alkaline earth ions and of preventing them from precipitating or depositing in the treatment baths and heat exchangers.

When using BEIXON Q a slightly acid, buffered pH value results. This allows for adjusting a pH range in desizing liquors which is optimal for amylases.

Recipe Recommendations

1. Discontinuous enzymatic desizing (jet, jigger)

0.1 - 0.5 ml/l BEISOL SED
0.5 - 1.0 ml/l FELOSAN NFG
1.0 - 3.0 ml/l BEIXON Q

Treatment temperature: 90 - 98 °C
Treatment time: 10 - 30 min
Washing off process: hot and cold

2. Discontinuous prewashing and extraction (jet, jigger)

0.5 - 1.0 ml/l FELOSAN NFG
1.0 - 3.0 ml/l BEIXON Q

Treatment temperature: 90 - 98 °C
Treatment time: 10 - 30 min
Washing off process: hot and cold

3. Continuous enzymatic desizing, pad steam process

0.2 - 1.0 ml/l BEISOL SED
3.0 - 5.0 ml/l FELOSAN RG-N/NKB
2.0 - 8.0 ml/l BEIXON Q

Liquor pick-up: 80 - 130 %
Dwelling time: steam for 2 - 20 min
Impregn. temperature: 20 - 80 °C
Washing off process: hot and cold

4. Continuous enzymatic desizing, pad batch process

0.2 - 1.0 ml/l BEISOL SED
3.0 - 5.0 ml/l FELOSAN RG-N/NKB
2.0 - 8.0 ml/l BEIXON Q

Liquor pick-up: 80 - 100 %
Dwelling time: 6 – 8 hours
Impregn. temperature: 65 - 70 °C
Washing off process: hot and cold

5. Continuous enzymatic desizing, dosage on a washing machine

0.2 - 1.0 ml/kg BEISOL SED
1.0 - 3.0 ml/kg FELOSAN NKB
2.0 - 8.0 ml/kg BEIXON Q
0.0 - 1.0 ml/kg KOLLASOL CDS

Treatment temperature: > 90 °C
Treatment time: 30 - 120 sec
Washing off process: hot and cold

6. Continuous prewashing, dosage on a washing machine

2.0 - 3.0 ml/kg FELOSAN NKB
3.0 - 5.0 ml/kg BEIXON Q
0.0 - 1.0 ml/kg KOLLASOL CDS

Treatment temperature: 70 - 90 °C
Treatment time: 30 - 120 sec
Washing off process: hot and cold

7. Continuous bleach, pad-steam process

1.0	-	4.0	ml/kg	FELOSAN RG-N/NKB
0.0	-	8.0	ml/kg	BEIXON Q
2.0	-	6.0	ml/kg	CONTAVAN ICE
4.0	-	20.0	g/kg	NaOH 100%
20.0	-	60.0	ml/kg	H2O2 35%

Liquor pick-up:	80 - 130 %
Dwelling time:	steam for 2 - 20 min
Impregn. temperature:	20 - 60 °C
Washing off process:	hot and cold

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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