

KAPPAZYM C 94

GOTS approved, liquid cellulase preparation for enzymatic finishing (bio-polishing)

Chemical composition	aqueous enzyme preparation based on cellulase
Appearance	clear, dark-brown liquid
pH-value 20 °C	approx. 5.0 (product)
Density 20 °C (g/ml)	approx. 1.16

Function

KAPPAZYM C 94 is GOTS approved and used for the enzymatic finishing of cellulosic fibres, the "bio-polishing" process. It has a specific effect on cellulosic fibres and is completely biodegradable. It changes the surface of woven and knitted fabrics by controlled hydrolysis (de-composition) of cellulosic fibres.

Bio-polishing with KAPPAZYM C 94

- prevents or removes pilling, slubs, knots.
- creates a glossy, smooth surface.
- gives a soft, smooth handle.
- prevents interlocking of fibre ends and thus a conglutination of the fabric.
- creates stone-wash effects on ready-made jeans.

To achieve optimal effects the following conditions need to be observed:

Temperature: between 40 – 55 °C

pH-value: optimal activity and stability pH 4.5 – 5.5

Application

KAPPAZYM C 94 can be used in the continuous as well as in the discontinuous process for the surface modification of woven and knitted fabrics made of cellulosic fibres. KAPPAZYM C 94 can be applied on its own or integrated in the after-soaping or conditioning process.

Discontinuous process (winch, jet, paddle, drum)

- 0.5 – 3.0 % KAPPAZYM C 94
- liquor ratio: 5:1 to 25:1
- treatment time: 30 – 60 minutes (depending on required effect)
- temperature: 45 – 55 °C
- pH-value: 4.5 – 5.5 adjust with acetic acid

After the treatment, the enzymatic decomposition process must be terminated (enzyme stop, deactivated) either by a temperature increase to 70 °C and dwelling for 20 minutes at 70 °C (rinse hot and cold afterwards) or by rinsing hot and cold and immediate drying of the fabric at 120 °C minimum in order to prevent further decomposition of the cellulose and thus material damage. Any overdose or prolonged treatment with KAPPAZYM C 94 should therefore be avoided.

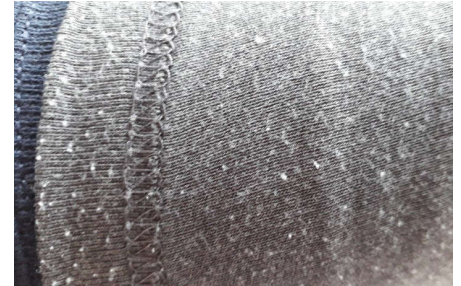
Dilution instruction

KAPPAZYM C 94 can be diluted with cold water at any ratio. The product can also be added directly to the liquor.

When using the products, the precautionary measures applicable to the handling of chemicals must be observed. For storage and hazard information as well as safety advice, please refer to the relevant safety data sheets. Application solutions and product residues must be disposed of in accordance with official regulations. The listed instructions correspond to our previous experience. However, in view of the different operating conditions, only non-binding information and advice can be given. Therefore, we cannot accept any liability whatsoever, including liability for claims by third parties. Errors, changes and misprints excepted. Non-binding product information, print date May 24, 2023, not subject to systematic change.

Contact

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Standards (further on request)

- GOTS
- ZDHC

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Storage

At a storage temperature of 25 °C, KAPPAZYM C 94 generally maintains its declared activity for at least 3 months. Longer storage above 30 °C should be avoided.