SEQENS
ADVANCED SPECIALTIES

TEXTENS

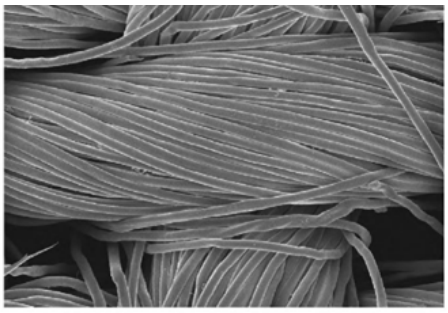
Cross-linking agent for low fibrillation textile fibers

SEQENS develops ingredients for the most demanding industries such as aerospace, construction, electronics, cosmetics, automotive and textile.

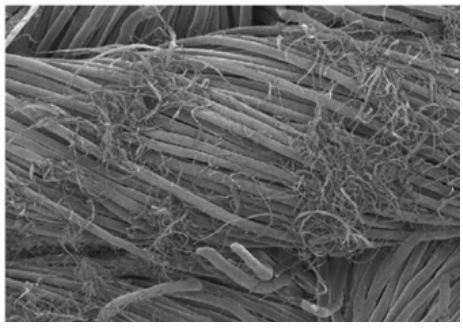
In this purpose, SEQENS offers a range of cross-linking agent, TEXTENS, enabling the reduction of textile fibers' fibrillation.

In the wet state, the water penetrates inside the fibrillar bundles, resulting fiber swelling and breakage of hydrogen bonds. This leads to fibril splitting and subsequent exposure of the fibrils onto the fiber surface giving the finished fabric a frosty appearance.

Reducing fibrillation, also known as pilling tendency, of textile fibers allow high wet abrasion resistance and a modified pore structure of the fiber for better dye fixation.

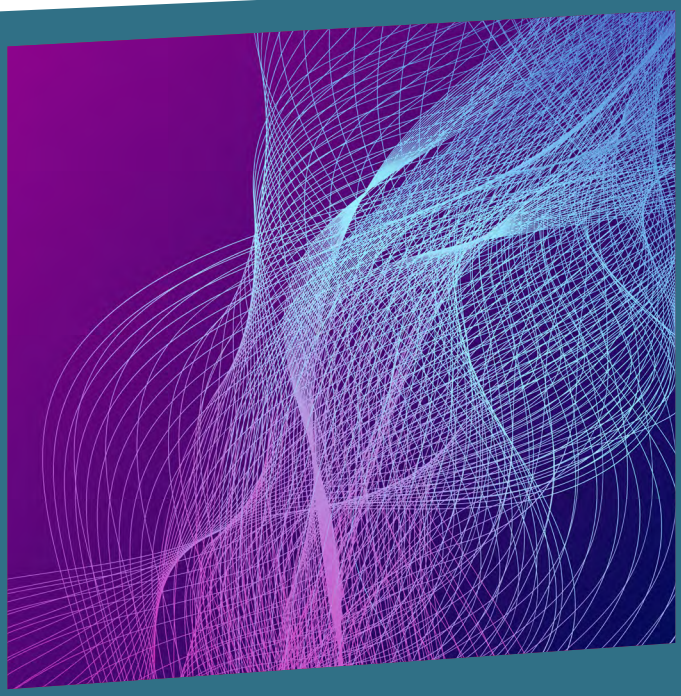


No fibrillation



Strong fibrillation

Book Regenerated Cellulose Fibres, edited by Calvin Woodings



ABOUT SEQENS

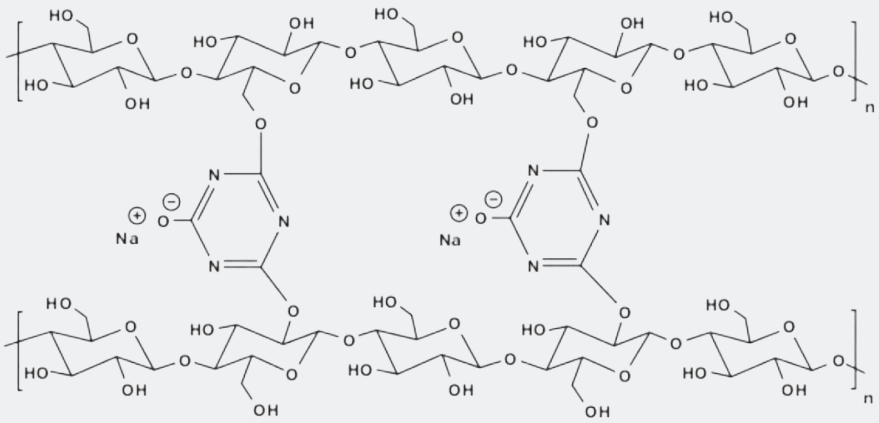
SEQENS is an integrated global leader in pharmaceutical synthesis and specialty ingredients, delivering outstanding performance, unrivalled market responsiveness and tailor-made solutions to its customers.

SEQENS operates 24 manufacturing plants in Europe, North America and Asia with 3,200 employees.

Its 300 scientists, engineers and experts in its 3 R&D centers, develop tailor-made solutions and ensure that products are successfully transferred into production.

TEXTENS cross-linking agents' properties:

- Can cross-link with fibers under alkaline conditions before or after the fabric has been dyed
- Maintain the good physical properties of the fiber together with a good dye affinity
- The fabric produced can be processed on most dyeing machines
- Give to the fabric produced a good performance in subsequent washing
- The cross-linked fiber has an enhanced dye uptake that gives more economical dyestuff costs and deep coloration
- Less unfixed color remains to be removed, both reducing the water consumption in washing off and the color loading in the dye house effluent



Finnish Bioeconomy clusster, Futur Biorefniery Cellulose Programme Report 2011-2014

TEXTENS cross-kinking agents offer

- 2-sodiumhydroxy-4,6-dichloro-1,3,5-triazine as TEXTENS GM 192 generally used for cellulosic fiber
- Hexahydro-1,3,5-tris(1-oxoallyl)-1-3,5-triazine as TEXTENS TA 135 specifically dedicated to LYOCELL fiber

TEXTENS additives can also be used for other applications such as cross-linking agent in the photographic paper industry, strength paper agent and component in the formulation of solder resist inks.

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