Spinning Processes (4 A)

Dissolved

Spinning

Mass

Wet Spinning

Spinning pump

Extraction device

Spinneret

Stretching



Spinning Processes (4 B)

Dry Spinning

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Definition

In the dry spinning process, the spinning mass is dissolved in an organic solvent.

Procedure

The dissolved spinning mass is spun out by a stream of warm air into a spinning shaft several meters high. In the process, the solvent evaporates, whereupon the fibre solidifies. In order not to stick together, the filaments must not touch each other during spinning. The solvent is recovered from the spinning shaft and can be reused.

Examples of fibres

The dry spinning process produces, for example, polyacrylic and acetate. Acetate is obtained from cellulose and is called artificial silk because it is very similar in appearance and properties to real silk.



Did you know that acetate, because it is not a pure cellulose fibre, has different properties than viscose and modal? It resembles a synthetic fibre in its property profile.



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The wet-spinning process is used, for example, to produce the cellulosic man-made fibres viscose and modal.



Did you know that this spinning process, which is about 100 years old, originated from the desire for a substitute fibre for silk?







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Spinning Processes (4 C)

Melt Spinning

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Fashion D

Spinning Processes (4 D)

Lyocell Process















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