



CORONA FINISH

Superwool - Plasma News

RICHTER
F&A



Vorstellung

SUPERWOOL is our project leading to felting free treatment of wool. The finishing will fulfil the latest ecological requirements, such as chlorine free processing and AOX-free waste water.

The process we develop is

CORONA FINISH

It is the plasma based felting free finish of wool. CORONA FINISH is a multi-step-process, having its base within the physical discharge process.

PLASMA

Corona treatment is an electric discharge, which is very similar to the phenomena of thunder lightning



A tension of approximately **10.000 – 15.000 V** is applied to a hy voltage electrode. Than arcing happens – the discharge to the opposite electrode (earthing) takes place.

It is our target, to have this discharge as even as possible in order to control the destructive power of the lightning. The high tension is under

control and homogeny discharged, whereby the atmosphere next to the electric phenomena is beeing activated.

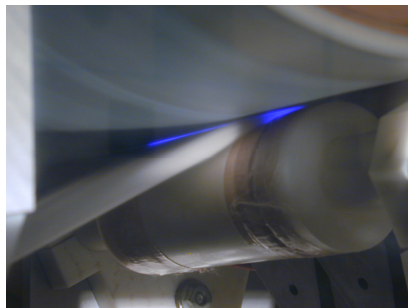
The wool is guided through this field of activated atmosphere, inbetween the electrodes. Within this the material gets oxidised on its surface.

Through this modification of the surface the preparation for the wanted results is achieved:

Reduction of Felting.

CORONA FINISH

The atmospheric plasma or Corona is the first step (preparation) of a mulit step process.



During the next processing steps within the dyeing and finishing the Anti-Felting is completed

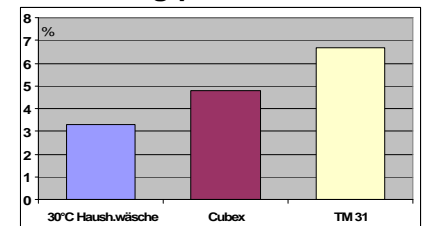
Textile properties

- Softness
- Machine washable
- Felting free according to
 - TM 31 (< 8% Shrinkage)
 - Cubex (< 8% Shrinkage)
- High hydrophility
- Best fiber and yarn strength
- Organic / Soil association / Global Standard suitable

Organic aspects

- AOX free (absorbed organic bound halogen)
- Chlorine free treatment
- Low water consumption
- Reduced energy usage

Anti felting performance



Through the latest developments it is possible to provide felting free textiles similar to those of the classical Hercosett Finish.

On top - Corona provides many organic aspects.

Where to use

Usage of Corona Finish treated wool is advisable wherever textiles have a need of washing after use, providing a new level of sustainability, combining modern care properties and responsibility to our environment.

Hydrophilic Effects

Comfort garments provide hydrophilicity. Using Corona Finish a combination of typical positive wool properties and a combination with rapid moisture uptake is ensured as required e.g. in Wintersport underwear.

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