



**Durable
AIRCLEAN
solutions**

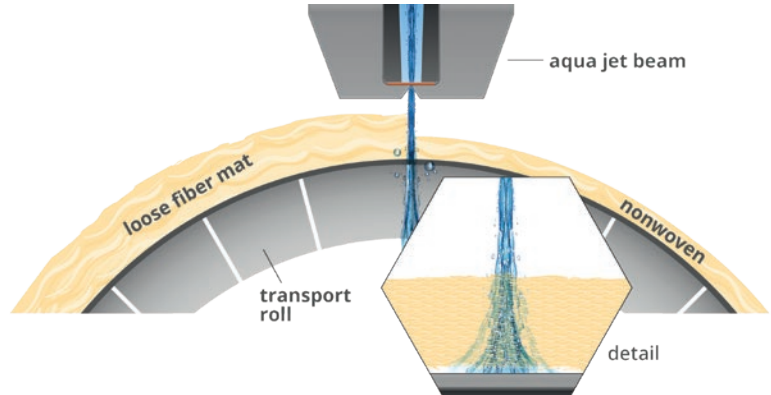
FILTRATION LINE

Norafin ®
materials for life

Hydroentanglement process

During the spunlacing process, a homogeneous, intertwined textile structure is created through high pressure water jets.

Two autonomous carding machines enable us to combine different nonwoven layers in one step.



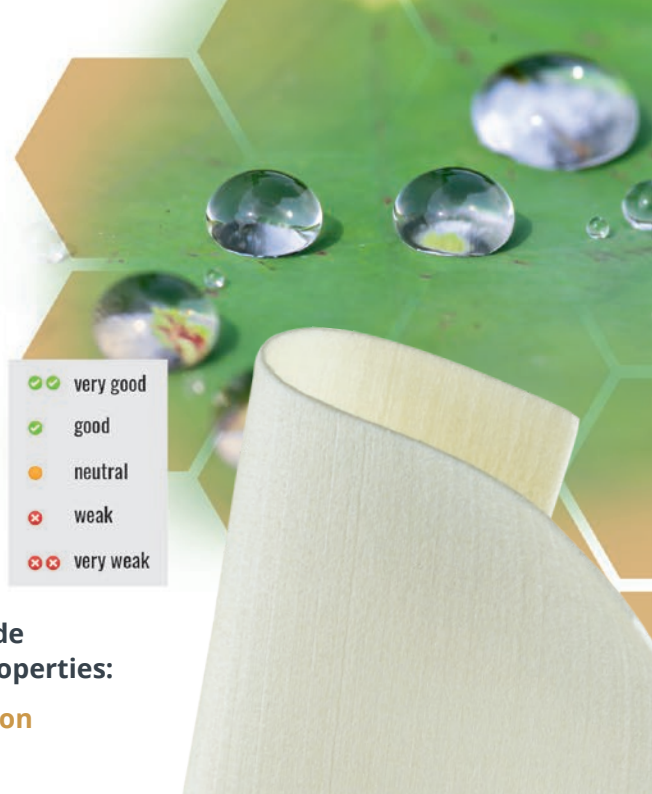
Fibers & Aftertreatment

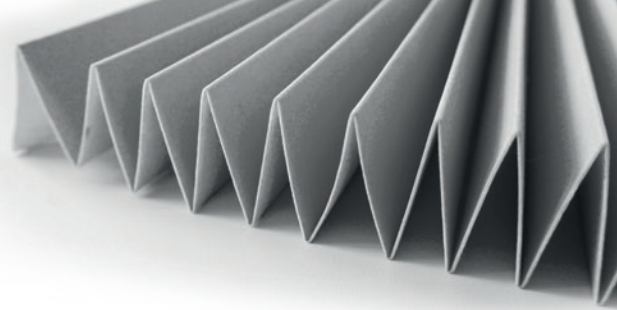
Basic Material	cont. - max. °C	LOI in %	Acid	Alcaly	H2O	O ²	S
					Hydrolysis	Oxydation	Solvents
PA6.6 (Polyamid 6.6)	110 – 115	28	✘✘	✓	✘✘	✘	✓
PAN (Polyacrylnitrile)	125 – 140	18	✓	○	✓	✓	✓
PET (Polyester)	150 – 180	20	○	✘	✘	✓	○
PPS (Polyphenylensulfid)	190 – 200	41	✓✓	✓✓	✓✓	○	✓✓
oxidized PAN	200 – 220	45	✓	✓	✓	✓✓	✓
meta Aramid	200 – 220	30	✘✘	✓	✘✘	✓	✓✓
PI (Polyimide)	200 – 240	38	✓	✘	○	✓	✓
para Aramid	200 – 450	28	✘✘	✘✘	-	-	✓

- ✓✓ very good
- ✓ good
- neutral
- ✘ weak
- ✘✘ very weak

Thanks to our self-sufficient finishing line, we are able to provide technical nonwovens, textiles and fabrics with the following properties:

impregnation, surface modification, foam application, lamination





Antistatic filter media

Our technology allows us to directly implement antistatic fibers into the filter media to provide homogeneous and everlasting high conductivity.

- ✓ **prevention of dust caused explosions (flour, wooden dust, milk powder etc.)**
- ✓ **avoidance of voltage discharge**

High-Temperature filter media

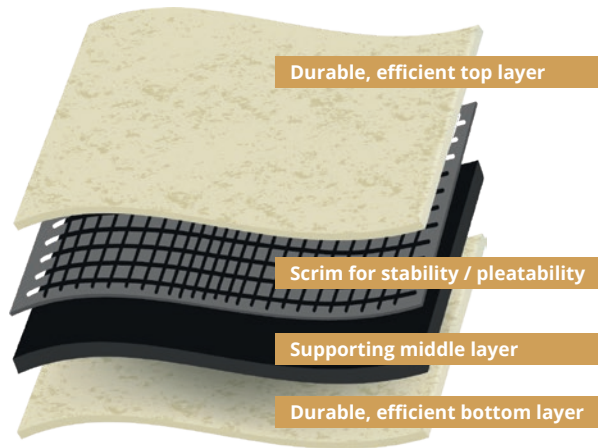
Depending on the requirements we can combine various fibers, layers and structures for an optimal, durable media. Through binder impregnation or scrim inclusion these can be evolved into a self-supported pleated filter media.

- ✓ temp. above 150 up to 260°C
- ✓ asphalt/cement production
- ✓ power generation



Multilayer **SOLUTIONS**

Multiple different nonwoven and scrim layers can be combined in one step through our hydro entanglement technology to a robust, stable filter solution.





Responsible use of resources and energy is one of the cornerstones of our corporate philosophy.

CRYSTALEN REPRESENTS

- ✓ high quality filter media
- ✓ stability
- ✓ purity
- ✓ durability



*We are your contact for nonwoven solutions
in the field of filtration.*



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