

PERFORMANCE LINE

Norafin ®  
*materials for life*

**SKIN CLOSE**  
to the people



## Health is the most important asset.

**To support this, the quality and reliability of our products is our first priority.**

Our fibers are made exclusively in Europe to meet the highest standards of safety and comfort in a highly sensitive area. We select the appropriate process technology and equipment according to the product requirements and the intended application.

Get in touch with us and find out more about our cosmetics and health products. They are certified according to STANDARD 100 by OEKO-TEX® as well as FSC™.

Norafin ®  
ECOLINE



The mark of  
responsible forestry  
FSC™ C140662

# *Nonwovens for Cosmetic Applications*

We offer our customers a wide range of cosmetic products. Soft and simultaneously strong fibers are used for the production of those cosmetic products.

- ✔ **ultra-thin materials with high rigidity, even when wet**
- ✔ **effective water absorption and release behavior**
- ✔ **compostable and biodegradable, due to the use of cellulose fibers or natural fibers**
- ✔ **pore deep cleanliness of our nonwovens, lint free**





# *Nonwovens for Facial Sheet Masks*

We are specialized in the area of gauzy and stabile base material in the area of facial sheet masks as roll goods. By using the skin-friendly Lyocell Skin fiber, our hydro-entangled nonwovens are well suited for facial skin mask substrates. Through the targeted use of VEOCEL™ Viscose, LYOCELL or especially the LYOCELL SKIN fiber we ensure a smooth, translucent facial mask for a gentle, natural skin care routine.



Purely for you

VEOCEL™ is a trademark  
of Lenzing AG

- ✓ **optimally adapts to the contours of the face**
- ✓ **very skin friendly, soft and effective**
- ✓ **excellent liquid management**
- ✓ **tear-resistant and strong**
- ✓ **gauzy and translucent**
- ✓ **does not require an additional carrier in the production**



# PRODUCTS

100 % LYOCELL SKIN	Norafin Hydro super light 02068.99	Norafin Hydro light 02069.99	Norafin Hydro regular 02159.99	Norafin Hydro plus 02171.99	Norafin Hydro ultra 02066.99
Weight* (g/m <sup>2</sup> )	30	40	45	50	60
Thickness* (mm)	0.4	0.46	0.5	0.55	0.64
Structur	flat				
Tensile strength (N/5cm)	>57 / >30	>65 / >30	>85 / >44	>83 / >59	>86 / >66
Elongation (%)	19 / 36	18 / 42	23 / 39	23 / 37	22 / 44
Absorbency* (%)	>1,100	>1,000	>900	>1,000	>800

\* The values have been evaluated on the basis of the test methods according to DIN EN 29073-1/-2/-3/-6. The values are based on a sample size of 100 cm<sup>2</sup>.

**The nonwovens presented have been succesful in use by various manufacturers of face masks - from the lightweight to stable products, to high-performance articles.**



**Suitable  
for printing**



# Face Masks with Natural Hemp and Flax Material

Sustainable solutions with natural fibers are the latest innovations at Norafin. Thus, among others, we use 100 % flax fibers; combine the lyocell skin fiber with high quality hemp from Europe or offer a reliable 100% viscose nonwoven, which are durable and well drapable on the skin.



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- ✓ ecological, beautiful, functional
- ✓ 100% biodegradable

Hemp

Flax

**X**  **EXTRA  
ORGANIC**  
A brand of Norafin

Development of ecological alternatives to conventional products for a more natural future

# *Nonwovens for Cosmetic Applications*

Besides the roll goods for facial skin masks, we are specialized in manufacturing nonwovens for cosmetic and eye pads, hand or food masks as well as cosmetic wipes. For this purpose, we use particularly soft fibers to ensure gentle cleaning and care of the skin areas.

- ✓ **manufactured with Hydroentanglement and Needlepunch Technology**
- ✓ **different structures**
- ✓ **multilayer nonwoven solutions**
- ✓ **various weights until 200 g/m<sup>2</sup>**

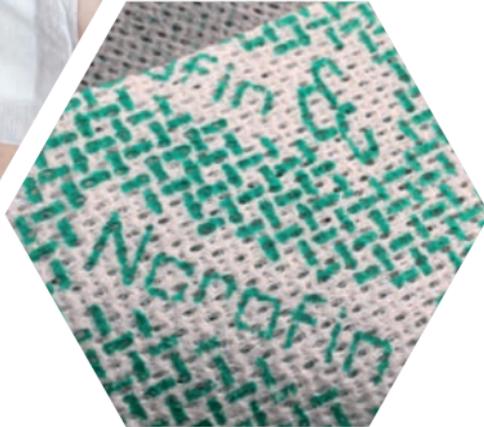
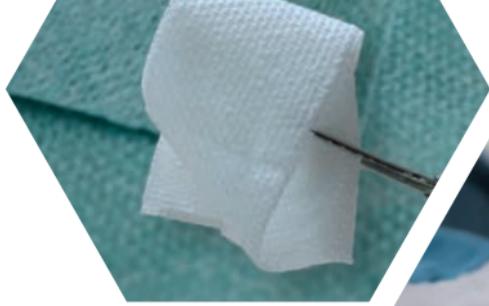
*We take advantage of the special properties of viscose, lyocell, flax and hemp.*



# *Nonwovens for Medical Applications*

Our products are produced with great care by experienced employees in well-engineered production processes. Only first-class, for medical application approved fibers of European origin are used in our medical products. Our materials every day help to treat the wounds patients' wounds and support the healing process of various injuries.

- ✓ cytotoxicity according to DIN ISO 10993-5-12;  
skin irritation according to DIN ISO 10993-10-12-23;  
skin sensitization according to DIN ISO 10993-10-12
- ✓ special fibers as well as loaded fibers
- ✓ individual cross sections and specific fiber gauges possible



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# PRODUCTS

ITEM	NP 110 95VIS/5BICO FL/1L W AT 01690.99	SL 40 70VIS/30PET FA/1L C 00127.99	NP 100 55VIS/25PET FL/1L W AT 00246.99	SL 50 70VIS/30PET FA/1L C 00001.99	SL 50 LYO CA/1L W 02556.99	SL 50 VIS CA/1L W 00194.99	SL 100 70VIS/30PET FL/1L W 00057.99
Technology	Needlepunch	Hydro-entangled	Needlepunch	Hydro-entangled	Hydro-entangled	Hydro-entangled	Hydro-entangled
Blend	95% Viscose 5% PET BiCo	70% Viscose 30% PET	55% Viscose 25% PET 20% PP	70% Viscose 30% PET	100% Lyocell	100% Viscose	70% Viscose 30% PET
Weight* (g/m <sup>2</sup> )	110	40	100	50	50	50	100
Structur	flat	fine appertured	flat	fine apertured	coarse apertured	coarse apertured	flat
Thickness*	1.89 mm	0.52	1.33	0.49	0.56	0.64	0.71
Absorbency* (%)	>950	>890	>975	>800	>1000	>930	>490

The values have been evaluated on the basis of the test methods according to DIN EN 29073-1/-2/-3/-6. The values are based on a sample size of 100 cm<sup>2</sup>.

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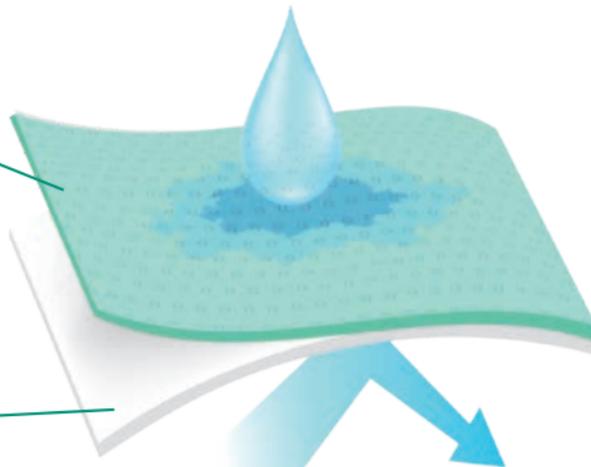


## *Multilayer Solutions*

A special feature in our product portfolio is our multi-functional nonwoven. During the manufacturing process two different nonwoven layers (on a cellulosic basis) are combined with high-pressure water jets and inseparably bonded together.

**Wound layer**  
hydrophilic

**Oposite layer**  
hydrophobic



### **Hydrophilic Properties:**

Absorptive capacity: >  
700%, in < 1 sec

### **Hydrophobic Properties:**

Water/oil repellent  
grade 1\*

\*According to AATCC  
test method 193:2010

# Aftertreatment Options

## Functional aftertreatment for:

- ✓ x-ray contrast stripes
- ✓ activated carbon
- ✓ calcium alginat fibers
- ✓ hydroactive fibers
- ✓ silver fibers
- ✓ antiseptic impregnation

## Aftertreatment:

- ✓ padding
- ✓ coating by doctor blade
- ✓ single color serigraphy



*Your contact for high performance nonwoven solutions.*



PER C+H 03/2023



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