



Light but  
**DURABLE**

**PERFORMANCE LINE**

Norafin  <sup>®</sup>  
*materials for life*



# *Technical Nonwovens for Composite Structures*

When developing nonwovens for composite structures, our focus is on performance and sustainability. Whether for roller coatings, cable applications, body armor, or renewable energy sources, our high-quality nonwovens are increasingly used for a wide range of applications.

## **POWERFUL FIBER CHOICE**

- ✓ high-performance man-made (aramid) and natural fibers (flax, hemp) used for composite structures
- ✓ flexibility regarding the fiber diameter and length

## **EXCELLENT MATERIAL CHARACTERISTICS**

- ✓ light-weight
- ✓ flexible, conformable
- ✓ tear-resistant and durable
- ✓ homogeneous texture
- ✓ rapid wet-out
- ✓ easy to impregnate
- ✓ isotropic fiber orientation and strength in all directions
- ✓ antistatic

## PERFORMING PRODUCT OPTIONS

- ✓ increasing safety and material strength
- ✓ excellent optical appearance and surface finish
- ✓ intermediate volume fraction reinforcement
- ✓ electrical conductivity

## WIDE RANGE OF APPLICATIONS

- ✓ public transport / aviation
- ✓ motorsports / yachting
- ✓ leisure sports equipment
- ✓ tubes / CiPP
- ✓ wire and cable applications
- ✓ roll covers
- ✓ body armour and ballistic protection

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for NFC's



## PROCESS CAPABILITIES

### Needlepunch Technology

Basis weight range: 60 – 1,000 g/m<sup>2</sup>  
Width upon request: max. 2.10 m

### Spunlace Technology

Basis weight range: 15 – 750 g/m<sup>2</sup>  
Width upon request: max. 2.20 m





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