

UNI- DIRECTIONAL

A range of bonded Uni- Directional fabrics

Uni-Directional fabrics offer both versatility, specific localised reinforcement and an ability to provide maximum strength in the axis of load. At Sigmatech we offer a range of woven UD fabrics using either scaffolding yarns or thermo-bonded methods; using a thermoplastic weft (90 degree) yarn to bond warp (0 degree) carbon tows together in a woven style. A level of customisation is available to meet your exact needs.

UNI-DIRECTIONAL ADVANTAGE

Uni-Directional fabrics work best in situations where you need strength and stiffness in a single direction. Bonded dry-fabric versions are suited to processes such as resin infusion and hand-lay methods such as in boat hulls and infrastructure repairs



We use a low melt polymer yarn to bond our woven UD, this provides excellent stability but also good infusion behaviour.



PRODUCT FEATURES

01

Wide FAW range

Fabric Area weights range from 400gsm to 1800gsm

02

Fibre Grades

Fibre tow size matched to FAW, typically 12K to 50K fibre used

03

Bonding Styles

Woven and stabilised with either a scaffolding yarn or thermo-bonded yarn

04

Widths

Widths from 100mm up to 1270mm are available, subject to MOQs.





LEADERS IN

CARBON FIBER

TEXTILE TECHNOLOGY

ABOUT US

Established in 1986, Sigmatex are a global leader in the design, development and manufacture of carbon fiber based textiles and operate within the Advanced Materials sphere.

From our modern manufacturing facilities, we produce an unrivaled range of CF textile products, allowing us to guide you to the optimum solution for your project.

We serve our global customer base from three manufacturing locations in Europe (UK), USA (SC) and Asia (China).

With a philosophy of developing long-term partnerships, we are proud to say we generate over 90% of our annualised sales from repeat business!

OUR MISSION

Our mission is to be your first choice supplier for carbon fiber textiles based on our commitment to delivering excellence in innovation, service level, quality and trust.

MARKET SECTORS

Our products are used widely across a diverse range of end markets including Commercial Aerospace, Military and Defense, Space, Automotive, Marine and Sports & Leisure products.

SUSTAINABILITY

We are passionate about being an environmentally responsible business. Our commitment to sustainability spans across all aspects of our business, from waste reduction and recycling to energy efficiency, all independently verified through 3rd party certifications such as ISO14001, EcoVadis and ISCC+