

FLAT TOW FABRICS

Innovative weaving Technology

The Flat Tow weaving process developed by Sigmatech offers a next generation level of performance versus standard weaving due to the focus on keeping the tow bundle flat through the weaving process. This proprietary approach leads to very thin, flat and high closure level fabrics with low crimp and exceptional translation of mechanical properties. The outcome; thinner, lighter and stronger CFRP parts that provide superior performance!

FLAT TOW ADVANTAGE

By removing fibre twist and reducing crimp in the weaving process, we are able to maximise translation of fibre properties. By spreading and opening up the tow bundle, improved fibre wet out and interfacial bonding is possible.



This product is designed for high-performance applications such as motorsport, commercial aerospace and military products.



PRODUCT FEATURES

01

Low FAW

Fabric Area Weights range between 195gsm to 280gsm using high strength 12K

02

Fiber Grades

Product options include standard, intermediate and high modulus fiber grades

03

Weave Styles

Available in Plain, Twill and Satin weave styles

04

Aesthetics

Due to our unique tow spreading technology, we are able to create a consistent and uniform weave pattern





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+.