

Carbon Fiber Woven Fabric

1K to 12K tow | T300 and T700 grade | 120 to 600 g/m²

01 About Shaanxi Fortex Technology

Shaanxi Fortex Technology Co., Ltd. is an industrial sourcing and supply company based in Xi'an, Shaanxi, China. Our composites division supplies carbon fiber woven fabric in every common format, from fine 1K plain weave for cosmetic parts to heavy 12K twill for structural laminates, alongside glass reinforcement, resin systems and infusion consumables.

We buy directly from qualified weaving mills, with no trading layer in between, so the specification on your order is the one the loom runs. Every roll is inspected before dispatch and ships with a Certificate of Analysis, and freight is quoted door to door on FOB, CIF or DDP terms.

TOW SIZE

1K 3K 6K 12K

FIBER GRADE

T300 / T700

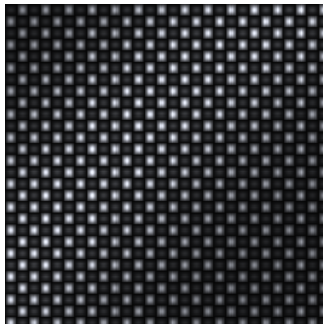
AREAL WEIGHT

120 to 600 g/m²

STANDARD WIDTH

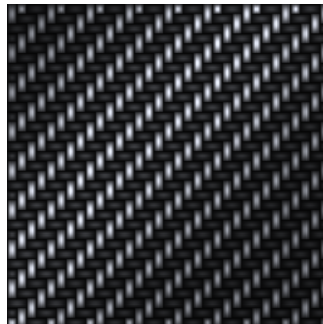
1000 mm

02 Weave Patterns



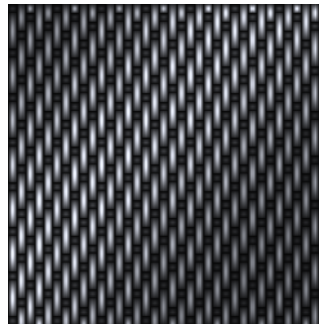
PLAIN

Each tow passes over one and under one. The most stable weave, easy to cut and handle without distortion. Suited to flat panels and tooling.



2x2 TWILL

Over two, under two, which gives the familiar diagonal pattern. Drapes over curves better than plain weave and is the standard cosmetic finish.



SATIN 5H / 8H

Long floats with few crossover points. The best drape for complex shapes, with a very smooth surface and good strength retention.



JACQUARD

Patterns such as hexagons programmed into the loom. Used on visible decorative surfaces and premium interior trim.

03 Features and Applications

PRODUCT FEATURES

- High tensile strength and tensile modulus
- Low weight for the stiffness delivered
- Excellent corrosion resistance
- Uniform, smooth surface finish

TYPICAL APPLICATIONS

- Aerospace structures
- Automotive parts
- Wind turbine blades
- High-pressure CFRP pipes
- Sporting goods
- Shipbuilding
- Civil construction
- Prepreg production

04 Typical Product Specifications

PRODUCT CODE	WEIGHT g/m ²	THICKNESS mm	WARP ends/cm	WEFT ends/cm	CARBON FIBER	WIDTH mm	WEAVE PATTERN
SFT-1K-P120L-1000	120	0.12	9	9	1K-T300	1000	Plain
SFT-1K-T120L-1000	120	0.12	9	9	1K-T300	1000	2x2 Twill
SFT-1K-S200L-1000	200	0.21	15	15	1K-T300	1000	8H Satin
SFT-3K-P200L-1000	200	0.25	5	5	3K-T300	1000	Plain
SFT-3K-T200L-1000	200	0.25	5	5	3K-T300	1000	2x2 Twill
SFT-3K-J220-1000	220	0.22	5	5	3K-T300	1000	Jacquard
SFT-3K-J240-1000	240	0.24	6	6	3K-T300	1000	Jacquard
SFT-3K-T220L-1000	220	0.28	5.5	5.5	3K-T300	1000	2x2 Twill
SFT-3K-P240L-1000	240	0.30	6	6	3K-T300	1000	Plain
SFT-3K-T240L-1000	240	0.30	6	6	3K-T300	1000	2x2 Twill
SFT-3K-T240H-1000	240	0.30	6	6	3K-T700	1000	2x2 Twill
SFT-3K-S280L-1000	280	0.29	7	7	3K-T300	1000	5H Satin
SFT-6K-P320L-1000	320	0.38	4	4	6K-T300	1000	Plain
SFT-6K-S380L-1000	380	0.40	4.8	4.8	6K-T300	1000	5H Satin
SFT-6K-T400L-1000	400	0.42	5	5	6K-T300	1000	Twill
SFT-12K-T400L-1000	400	0.42	2.5	2.5	12K-T300	1000	Twill
SFT-12K-T600H-1000	600	0.62	3.75	3.75	12K-T700	1000	Twill

Custom specifications are available on request, including tow size, weave, areal weight, fiber grade and roll width. Values listed are typical and may vary within normal manufacturing tolerance.

05 Reading a Product Code

1 2 3 4 5 6
SFT - 3K - T 240 H - 1000

- 1 Fortex product line
- 2 Tow size: 1K, 3K, 6K or 12K
- 3 Weave: P plain, T twill, S satin, J jacquard
- 4 Areal weight in g/m²
- 5 Fiber grade: L = T300, H = T700
- 6 Roll width in mm

06 Supply and Quality

LEAD TIME

7 to 15 days from order confirmation

SAMPLES

Sample supplied and approved before bulk production

INSPECTION

In-house inspection before dispatch, with packing photographs

MINIMUM ORDER

50 m² (538 ft²) per specification

DOCUMENTATION

Certificate of Analysis with every shipment: areal weight, tow specification and batch data

FREIGHT

Door to door by sea, rail or air on FOB, CIF or DDP terms



— Shaanxi Fortex Technology Co., Ltd. —

REQUEST A QUOTE

Send a specification and quantity.
We reply within one business day.

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