

CARBON

INTRODUCTION

Although Saint-Gobain is known as a world leader in all aspects of glass, Saint-Gobain Technical Fabrics have for many years been at the forefront of development and supply of carbon fibre fabric reinforcements. These products are better known by their old brand names of Bayex®, COTECH® and Syncoglas.

As the combined SGTF Composites Group, we now offer a comprehensive range of carbon reinforcements:

- **Multiaxial carbon fabrics**
- **Unidirectional carbon fabrics/tapes**
- **Woven carbon fabrics**

We have completed a major investment to our carbon manufacturing facilities, and now have machinery totally dedicated to carbon production. This has resulted in **Airbus approval** for our Multiaxial fabrics and manufacturing facility

The Importance of Multiaxials

Although wovens have traditionally been the choice for carbon reinforcements, Multiaxials are showing the most growth in the fast-growing high-performance composites sector.

The combination of straight fibres and easily achievable high fibre fractions allow Multiaxial reinforcements to offer a performance advantage that is so important in any carbon composite.

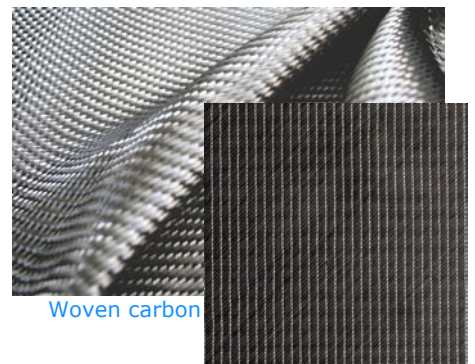
Added-value services

As well as the manufacture of carbon fibre reinforcements, we are also able to offer the customer added-value services:

- **Kit-cutting** - dry fabrics and pre-pregs cut to kits, with automated nesting that minimizes wastage. The Lectra system can cut stacks up to 25mm, with a maximum width of 330cm.
- **Preforming** - full 3D preforming service, using an automated IR-heated HLM station.



Photo courtesy of Airbus Industries



Woven carbon

Multiaxial carbon



Photo courtesy of Aston Martin

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Product list and Specifications

Description	Reference	Width cm	Weights in each axis g/m ²			
			0°	-45°	90°	+45°
Biaxial ±45°	CBX 200 3k	125 or 250		100		100
	CBX 300 6k	125 or 250		150		150
	CBX 340 6k	125 or 250		170		170
	CBX 400 12k	125 or 250		200		200
	CBX 440 12k	125 or 250		220		220
	CBX 600 12k	125 or 250		300		300
	CBX 636 24k	125 or 250		318		318
	CBX 800 24k	125 or 250		400		400
	CBX 1200 48k	125 or 250		600		600
CBX 1600 48k	125 or 250		800		800	
Quadriaxial 0°/-45°/90°/+45	CQX 800 12k	125 or 250	188	200	200	200
	CQX 1309 12/24k	125 or 250	376	301	331	301
Biaxial 0°/90°	CLT 752 24k	125	376		376	
UD with veil	CLM 850/60	125	850		Veil 60	
Description	Reference	Width cm	Warp g/m ²	Weft g/m ²	Ratio	Weave
Woven UD	CUD 330 (C1204)	610	330	10	97:3	Hot melt
	CUD 1000/100mm	10	1000	10	99:1	Plain
	CUD 1000/150mm	15	1000	10	99:1	Plain
Woven fabrics	CR 200 (C3010)	127	100	100	50:50	Plain
	CRE 200 (C3020)	127	100	100	50:50	2/2 Twill
	CRSF 385 (C6030)	127	193	193	50:50	5H Satin
	CRE 640 (C1201)	127	320	320	50:50	2/2 Twill

All weights nominal. Other weights & variations available to order (subject to minimum order quantity) . Without Liability! 02/04