



### The Next Evolution in Composite Fiber

Synthex® composite fibers just got better! Not only have we improved the features of Synthex for 2015, but we have lowered the price! The new & improved performance characteristics of Synthex® fiber are a perfect balanced for use in Prosthetic and Orthotic composite applications!

#### Features

- Fiber does not cause itching
- 20% to 25% more coverage
- Size range from 3" to 12"
- 6K Ultralight weave
- Cost effective
- Compatible with all resins
- More impact strength than carbon
- Non-conductive
- Heat modifiable
- Available in Carbon Black and White colors
- Use fewer materials in your laminations
- Perfect balance of performance for O&P applications

#### Better Fatigue Strength

Synthex® is a tough fiber! In fact it has far better impact resistance over carbon with half the stiffness! What does this mean? It means that your Prosthetic or Orthotic device is perfectly matched for the repetitive impact forces commonly generated during the ambulation cycle. Your Prosthetic or Orthotic device will not sustain micro fractures commonly associated with typical rigid carbon and glass sockets.

#### Durable and Controllable

Synthex® designed composites are incredibly durable, and not brittle like carbon composites. With the right resin, Synthex® is heat moldable. We recommend an Acrylic 80/20 resin to achieve this.

#### Higher Performance Laminates

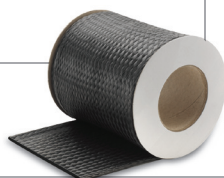
Synthex® lays down more uniformly and smoother than fibers like carbon and glass that utilize sizing. Synthex® wets out fast and easy with all common resins during resin transfer, because of its high fiber interface and low void content. This translates into resin that sticks and air that does not get trapped easily. Synthex® fibers are significantly lighter than carbon and glass fibers and lay down flatter during the lamination process. The net result is less ribbing in thin laminations.

#### Eliminates Composite Itch

Synthex® removes the composite itch when compared to carbon and glass fibers! Most users will tell you it does not itch! You will also notice that your lab is cleaner, this is because Synthex® does not "micro" fiber when being ground.

#### You Have a Choice

Synthex® comes in white and black color configurations. Pigmenting a device is now a snap! And you use fewer materials!





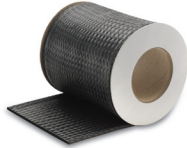
*Edging Synthex is a snap using traditional techniques and applying Fabtech Easy Edge™ finisher.*

**Applications**

- Upper and lower Prosthetic sockets
- Orthotic bracing
- High impact areas of any composite structure

# BIG Savings Over Traditional Carbon Fiber

Advanced Synthex™ Composite Fiber is easier to work with & non-toxic.



The • NO ITCH • Fiber!



Item #:	Length:	Description:	Size:
CS3-10	10ft	3"x10' Black Synthex	3"
CS4-10	10ft	4"x10' Black Synthex	4"
CS5-10	10ft	5"x10' Black Synthex	5"
CS6-10	10ft	6"x10' Black Synthex	6"
CS8-10	10ft	8"x10' Black Synthex	8"
CS10-10	10ft	10"x10' Black Synthex	10"
CS12-10	10ft	12"x10' Black Synthex	12"

Item #:	Length:	Description:	Size:
NS3-10	10ft	3"x10' Natural Synthex	3"
NS4-10	10ft	4"x10' Natural Synthex	4"
NS5-10	10ft	5"x10' Natural Synthex	5"
NS6-10	10ft	6"x10' Natural Synthex	6"
NS8-10	10ft	8"x10' Natural Synthex	8"
NS10-10	10ft	10"x10' Natural Synthex	10"
NS12-10	10ft	12"x10' Natural Synthex	12"



Item #:	Length:	Description:	Size:
CS3-50	50ft	3"x50' Black Synthex	3"
CS4-50	50ft	4"x50' Black Synthex	4"
CS5-50	50ft	5"x50' Black Synthex	5"
CS6-50	50ft	6"x50' Black Synthex	6"
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