



The Next Evolution in Composite Fiber

Synthex™ composite fiber is a new and exciting fiber advancement from the technologically advanced ballistic industry. The performance characteristics of Synthex™ fiber are perfectly balanced for use in Prosthetic & Orthotic composite applications.

Features

- -45+45 Braided Fiber Material
- Perfect balance of performance for O&P applications
- Cost effective
- New advanced ballistic fiber technology
- Compatible with all resins
- Incredible durability 10x the impact strength of carbon
- Fiber does not cause itching
- Non-conductive
- Heat modifiable
- Available in Carbon Black and White colors
- Pigments “Pop Out”
- Use fewer materials in your laminations



Better Fatigue Strength

Synthex™ is a tough fiber! In fact it has 10 times the impact resistance over carbon with half the stiffness! What does this all 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 fracture prone carbon and glass fiber sockets.

Durable and Controllable

Synthex™ designed composites are incredibly durable, and not brittle like carbon composites. Synthex™ is heat moldable. If you need to change it, just heat it up.

Higher Performance Laminates

Synthex™ fiber contains no sizing or glues. Because of this, 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™ greatly reduces the common composite itch when compared to carbon and glass fibers! Most users will tell you that 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!



ADVANCED
synthex™
COMPOSITE FIBER



Applications

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

Edging Synthex is a snap using traditional techniques and applying Fabtech edge finisher.

BIG Savings Over Traditional Carbon Fiber

New Advanced Synthex™ Composite Fiber is easier to work with & non-toxic. No more itching!



Item #:	Length:	Description:	Size:
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"

Item #:	Length:	Description:	Size:
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"



Item #:	Length:	Description:	Size:
CS4-50	50ft	4"x50' Black Synthex	4"
CS5-50	50ft	5"x50' Black Synthex	5"
CS6-50	50ft	6"x50' Black Synthex	6"
CS8-50	50ft	8"x50' Black Synthex	8"
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