



ADVANCED synthex™ COMPOSITE FIBER

Technical Data

Cutting Synthex™ Fiber:

Because Synthex™ is such a tough and resilient fiber the use of a specially designed scissor results in the easiest cutting. These specifically ground scissors are available from Fabtech Systems.

Only use the Synthex™ scissors on Synthex™ fiber and NOTHING else! Other fibers and materials will destroy the cutting edge.

10" Synthex Scissors (Stock # S7250)

- Before cutting Synthex fiber, tape the edge of the fiber with masking tape then cut down the middle of the tape line.
- If you choose not to purchase the scissors specifically ground for Synthex, the next best scissor type is a scissor with a serrated edge."
- If you attempt to cut Synthex fiber with a smooth bladed scissor, use very sharp scissors then fold the braid over on itself - (doubling up) greatly helps.

Lamination:

We have found for the best edging results, the use of Perlon, nylons or 1/2oz Dacron felt is ideal as the first layer and the last layer.

Example for best results:

- 2 inner Perlon, nylon or 1/2oz Dacron felt
- 2 outer Perlon or nylon
- All resin compatible

Grinding:

- Use high speed and low pressure.
- Only use sharp abrasives, dull abrasives will create friction and will "burn off" the resin and leave exposed fibers at your edge.

Note: "Burn off" is when the resin heats up with friction and melts or shrinks back, exposing the fiber contents.

Heat Molding:

Synthex™ fibers are heat moldable. Use caution as most current resins on the market are not adjustable once they have cured and the bonds will break with little deflection. We recommend Fabtech epoxy resin or an 80/20 acrylic resin.

Edging Techniques:

(The use of inner and outer finish layers is required. See example layups below.)

Average edge quality: Finish as you would any composite by wet sanding using 220 grit and finish with 400 grit wet/dry sanding paper.

Superior edge quality: Grind as normal, seal edge with Easy Edge composite edge sealer and activator, sand with 220 grit sandpaper and seal with Easy Edge composite edge sealer and activator.
(Easy Edge Stock # EE1000 / Activator Stock # EA1000)

Alternate edge finish: Apply Fabtech fabric edging trim or equivalent.

Example Layup TT:

- Typical PTB
- 1 layer of 1/2oz felt or 2 layers of Perlon or nylon
- 1 layer of Synthex
- 2 layers of nylon or equivalent. Reinforce with carbon or Synthex uni-tapes as needed
- 1 layer of Synthex
- 2 layers of sheer nylon or equivalent

Example Layup TF:

- Typical TF
- 1 layer of 1/2oz felt or 2 layers of Perlon or nylon
- 1 layer of Synthex
- 2 layers of nylon or equivalent. Reinforce with carbon or Synthex uni-tapes as needed
- 1 layer of Synthex
- 2 layers of sheer nylon or equivalent