



Carbon Fiber Remanufacturing

Converting Post Industrial Carbon Fiber to New Product

Pre-oxidized PAN Fiber (Polyacrylonitrile) Reclaimed Material Cut Fiber

**2,400,000 lbs available
Plus Ongoing Volume Contract of 45,000 lbs per month**

For Sale

Product: Processed polyacrylonitrile (PAN) fibers stabilized in a high temperature process allowing the finished product to retain their appearance, hand, and textile characteristics after exposure to open flame. This material will not burn, melt, or drip, but will rather char and self-extinguish. These fibers are 62% carbon. This is dry fiber. This is not “pre-preg” material (fiber already mixed with resins or treatments that would have to be removed).

Fiber Type: Staple fiber with varied lengths with range as indicated in Auburn University lab report available through our office (decompacted only).

Manufacturer: The fiber is produced by one of two companies:

Pyron pn37 from Zoltek, see specs at: <http://www.zoltek.com/products/pyron.php>
Panox from SGL, see specs at http://www.sglcarbon.com/sgl_t/fibers/panox.html

Volume: Approximately 2,400,000 lbs) currently available.

Repeating Volume: Approximately 45,000 lbs per month of additional product is available. Buyer may contract for container volume on an ongoing annual or multi-year basis.

Cut Fiber Specification: Fiber material can be cut to your order in nominal lengths of: 0.25”, 0.50”, 0.75”, 3.0”, 1” – 2” blend, 2” – 3” blend, 2”-12” blend

Buyer Option: Buyers may describe their application requirements for specific cut lengths or other granulation or random length specifications.

Properties:

Elongation	Tensile Strength	Modulus	Density
%	MPa	GPa	g/cm3
20-32	> 210 MPa (270-330 typical)	3.3-4.9	1.355-1.385

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Geometry: Geometry of de-compacted material will be typical shown as in attached photos. Fiber diameter is 12.5 microns. Density is 1.37 g/cm³. Denier is 1.512 grams.

Samples: Samples may be requested with your courier account and delivery instructions. Specify cut length(s) of sample material requested.

If first small samples and lab testing are satisfactory to you, a larger test run sample for your process may be ordered.

Packing: Material is boxed or super-bagged and can be floor loaded. Box or bag dimensions will maximize use of 40 foot container or 53 foot trailer. Material is typically delivered in gaylords weighing approximately 50 lbs each.

Condition: Clean product, post industrial, direct from processing plant. Because of the process to produce the preform in a needle punching operation, there may be occasionally small broken needle tips embedded within the material. The needles are a stainless steel and the size of what remains in the preform is normally less than 1 mm in length. Equipment is designed into the present system to remove most if not all of this material.

Photos: Product photos may be ordered and sent via email.

Restrictions: None. Include general description of your intended general application in your offer to purchase along with the projected volume per month of your desired order.

Applications: Carbon Fiber Reinforced Plastic (CFRP) products, auto fire walls, vehicle insulation, furniture fabrics and cushion material, fire retardant clothing, and many other applications for materials and liners requiring a material to block heat or fire. Also used in the plastics industry for e-static discharge. Cut fiber material may be utilized as a non-woven air lay, needled cloth or mat for cloth, filter, or other high temperature applications.

FOB: Midwest, USA

Availability: 2011. Availability subject to prior sale

Terms: Payment in full before shipping.

Price: Call for quotation based on customer requirements, volume, schedule and final specifications.

Buyer may contract for all or a portion of the excess material presently stored. Buyer may order test loads of 1 container minimum orders.

For more product and pricing information, contact:

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