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TENAX maximizes the potential of carbon fiber.

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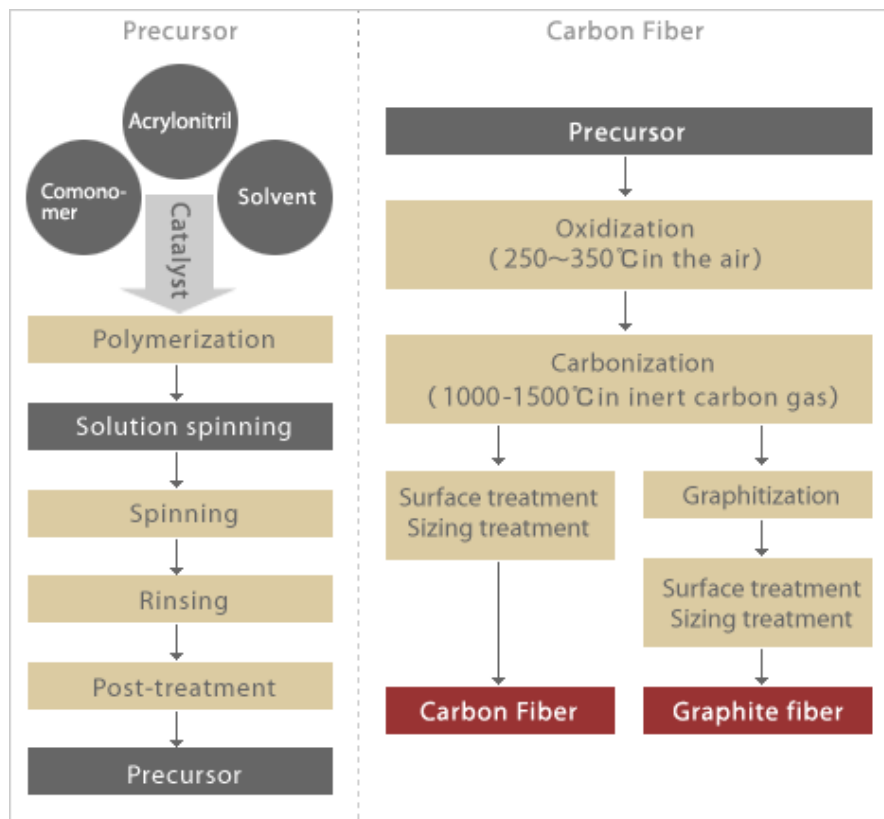
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Products

What is carbon fiber?

Manufacturing Process of Carbon Fiber (PAN-based)

Carbon fiber is made by carbonizing special acrylic fiber (precursor) as a raw material



Product Range

HTA-12K is the most common carbon fiber (PAN-based) produced and used around the world.

Classified by number of filaments

Type	Filament Symbol	Filament Count	Performance
HTA	1K	1000	Tensile strength: normally 400kgf / mm ² or higher
	3K	3000	Tensile modulus : 24x10 ³ kgf / mm ²

6K	6000	
12K	12000	
24K	24000	

Classified by performance

Symbol	Tensile Strength (kgf / mm ²)	Tensile Modulus (×10 ³ kgf / mm ²)
HTA (High strength type: general use)	400	24
UT (Higher strength type)	500-	24-
IM (Intermediate modulus / High strength type)	480-600	29-30
HM (High modulus type)	300-	35
UM (High modulus / High strength type)	350-500	40-68
Steel	40	21

Properties :

High in strength and modulus. A variety of products with a wide range of strength and modulus can be manufactured through the different processes

Other properties :

Chemically stable, resistant to acids, bases, and solvents, with a small coefficient of linear expansion, good dimensional stability, and conductivity. Fiber reinforcement materials can be produced by combining various materials.