

High Temperature Resistant Single Fiber Biaxial Original Product

Article Overview

High temperature resistant single fiber biaxial products, such as basalt fiber sleeves and multiaxial fabrics, offer superior thermal stability, mechanical strength, and abrasion resistance for industrial applications.

Basalt Fiber Biaxial Fabrics

Basalt fiber fabrics, like those from Basfibertex, are made from continuous basalt fibers and are available in biaxial, multiaxial, and woven structures. These fabrics provide high tensile strength, high modulus, fire resistance, and excellent impact properties. They are compatible with thermosetting resins (polyester, vinylester, epoxy) and thermoplastics (PA6, PA11, PPA), making them suitable for marine, defense, rail, wind energy, transportation, and construction applications. The biaxial structure enhances dimensional stability and mechanical reinforcement under thermal stress .

High Temperature Basalt Fiber Sleeves

Products like the high temperature woven braided biaxial basalt fiber sleeve are engineered for thermal insulation, mechanical reinforcement, and abrasion protection. The braided and biaxial weave improves tensile stability, impact resistance, and dimensional consistency at elevated temperatures. Basalt fiber is naturally derived from volcanic rock, providing excellent thermal stability without chemical additives. These sleeves are widely used for cable insulation, hydraulic ho...

Article Content

May 05, 2026

Heat resistant textiles

Bekaert's heat-resistant textiles made from stainless steel fibers of 12 µm and below are ideal for this use. They display excellent

Aug 13, 2025

Multiaxial Reinforcements – Metyx

Multiaxial Product Group METYX high-performance multiaxial reinforcements are engineered fabrics consisting of one or more layers

Apr 15, 2026

Fibre reinforcements | Glass fibre | Non-crimp fabrics | Biaxial ...

R& G Faserverbundwerkstoffe GmbH - Composite Technology, Glass-fibre Non-crimp-fabrics Biaxial-fabrics

Jul 06, 2026

High Temperature Thermal Textiles

High-temperature sewing threads available in para-aramid / kevlar, glass fibre, wire-reinforced fibreglass, and silica fibre, offering

Aug 23, 2025

Multiaxial Fabrics

SAERcore® Product description Saertex technical non-crimp fabrics are innovative multiaxial fabrics offering superior strength and

Mar 10, 2026

HiMax® Carbon Multiaxials

Hexcel produces a comprehensive range of carbon multiaxial fabrics, including Unidirectionals, +/- 30

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High-Temperature SM Fibers

Thanks to their robust coatings, high-temperature single-mode fibers can withstand temperatures of up to 150°C and more. They also

Jul 24, 2026

BXI Ceramic Fiber Thermal Insulation Board (2732F)

BXI Ceramic Fiber Thermal Insulation Board (2732F) - 12" X 8" X 0.4", Pack of 1 - Inorganic - Flame Retardant, Heat Resistant, High

Oct 14, 2025

Biaxial glass fabric 600 g/m² (+45°/-45°)

Biaxial glass fabric built of two layers of unidirectional fabric oriented at +45° and -45° respectively. Extensively used for han lay-up,

Oct 31, 2025

Biaxial Fabrics & Tapes | WEST SYSTEM Epoxy

Glass Biaxial Fabrics & Tapes 727 Biaxial Tape 17 oz non-woven E-glass fabric. Two layers $\pm 45^\circ$ fiber orientation are held together

Apr 16, 2026

High Temperature Temp Heat Resistant Alkali Free Cloth Fiber Glass ...

With alkali free glass fiber biaxial woven structure and customizable width thickness and roll length this fiberglass wrap tape supports

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Shop High-Quality Biaxial Fabric for Composites & More

The production process involves oxidizing the precursor material and then carbonizing it at high temperatures to form pure carbon

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E-Glass Fabric

Can e-glass fabric be used in high-temperature environments? Yes, e-glass fabric is often used in high-temperature environments

Apr 01, 2026

Development and Experimental Verification of a High-Temperature

Given the lack of primary data on heat-resistant composites under high-temperature conditions, the focus of this

Feb 27, 2026

Products

Basfibertex: High-tensile basalt fabrics for marine, defense, rail & more. Sustainable, fire-resistant, customizable, and ideal for

Mar 16, 2026

High Temp/Harsh Environment Fiber

Corning's High Temperature Fibers are designed for applications requiring improved fatigue resistance,

Jun 02, 2026

HiMax® Carbon Multiaxials

Carbon multiaxials are used predominantly in manufacturing components for the aerospace, automotive, marine and industrial markets.

Mar 21, 2026

High Performance And High Temperature Resistant Fibers

Conversely, high performance fibers are driven by special technical functions that require specific physical properties unique to these

Aug 03, 2025

High-temperature fibers | WEINERT Industries AG

For use in higher temperature ranges, all optical fibers based on Fused Silica can be optionally equipped with heat-resistant coating

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ampliTex™

Match the performance of carbon fibres with natural fibres thanks to our proprietary motorsport solutions. Improve safety and

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Compatible High-Temperature Resistant Single-Fiber Biaxial Fiber

Corning's High Temperature Fibers are designed for applications requiring improved fatigue resistance, high usable strength, and

Nov 08, 2025

Fiberfrax Unifrax | F.S. Sperry

Fiberfrax products include the most extensive line of ceramic fiber papers and felts available. These high

Jul 24, 2025

Fibre reinforcements | Carbon fibre | Non-crimp fabrics | Biaxial ...

TeXtreme® Carbon fibre tape 40 g/m² (HT, UD), width 20 mm Roll / 100 m from 52,25 / 100 m

Sep 06, 2025

Heat Resistant Fibres, Types Of Heat Resistant Fibres, High-Tech ...

Heat Resistant Fabrics, High-Tech Applications Having Exceptional Strength. Types Of Heat Resistant Fibres, Aramids, Carbon

May 31, 2026

High Temperature Cables

High Temperature Cables A range of single core and multicore cables for temperatures ranging from -190°C to +1565°C. Suitable for

Dec 12, 2025

DrakaElite High Temperature Silicone Single-Mode Fiber

Draka's High Temperature Resistant Silicone coated Single-Mode Fiber provides optimum transmission performance in both the 1310

Aug 19, 2025

High-temperature fibers | WEINERT Industries AG

Singlemode and multimode fibers for data communications or light transmission at high temperatures For

Sep 01, 2025

Specialty Single-Mode Fiber

This single mode optical fiber expands its core (mode field diameter) when heated during fusion splicing. It enables low loss

Aug 28, 2025

High-temperature Resistant Basalt Biaxial Cloth for Aerospace

Basalt fiber biaxial fabric is a type of reinforcement material used in composite manufacturing. It consists of basalt fibers woven into a

Sep 08, 2025

Products

Engineered for high temperature applications and compliant to different organic (epoxy, polyester, vinyl ester, PA, PP, PEEK, BMI,

Nov 01, 2025

Compatible High-Temperature Resistant Single-Fiber Biaxial Fiber

DrakaElite High Temperature Acrylate Single-Mode Fiber The Acrylate coated optical fiber can be used in all cable constructions

Sep 04, 2025

Technora® | Products | Teijin Aramid

With high tensile strength, fatigue resistance, and stability at elevated temperatures, it supports long-term reliability across a wide

Dec 31, 2025

Biaxial Carbon Fiber Fabric – Balanced Strength & Drape

Explore biaxial carbon fiber fabric with $\pm 45^\circ$ fiber orientation for equal strength in both directions, excellent drape, and fast resin

Oct 15, 2025

Polypropylene

Polypropylene with higher MFR will fill the plastic mold more easily during the injection or blow-molding production process. As the

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