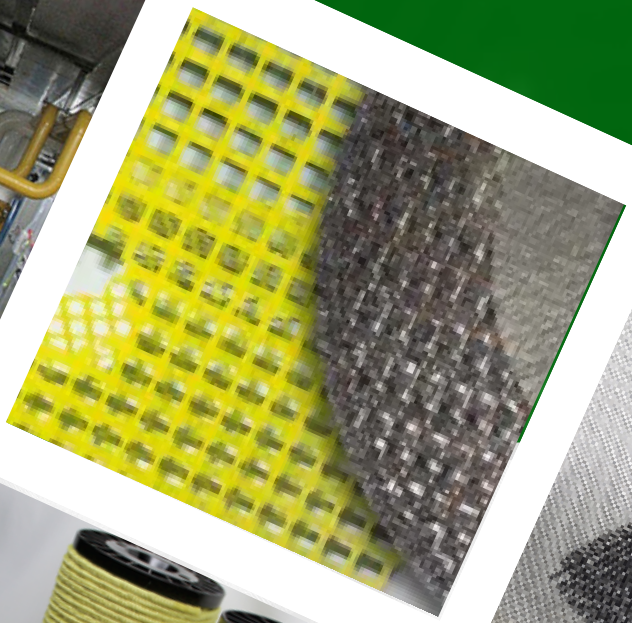
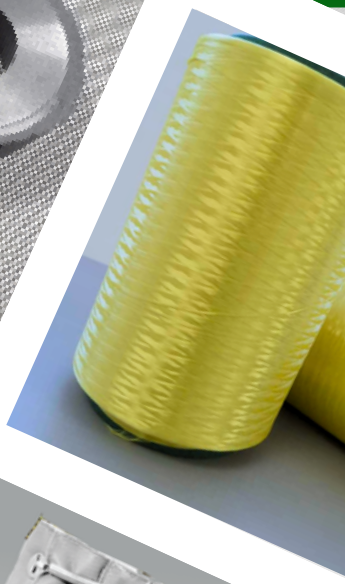
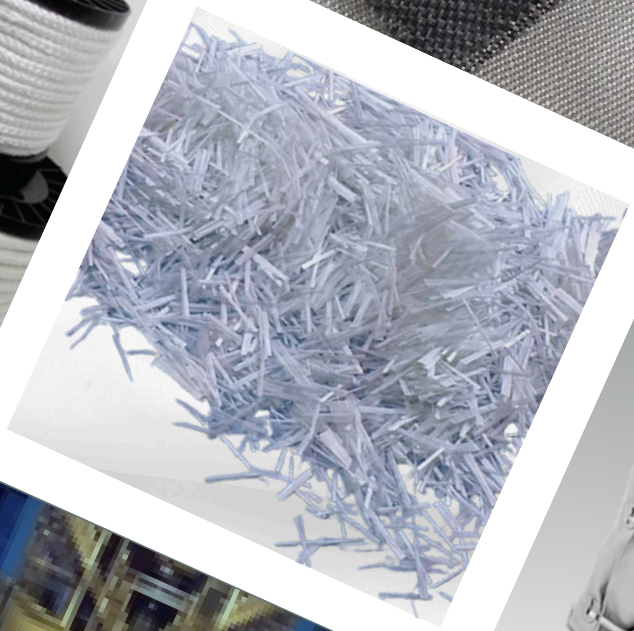
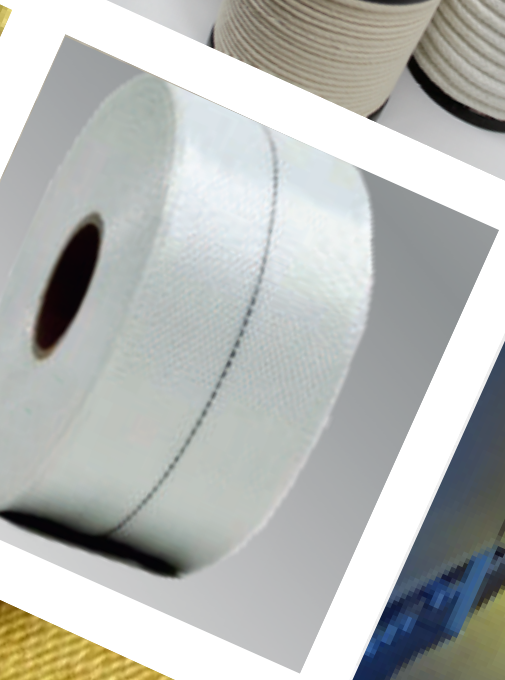
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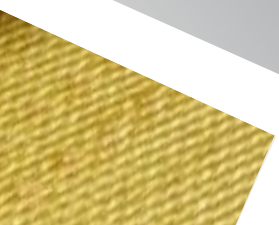
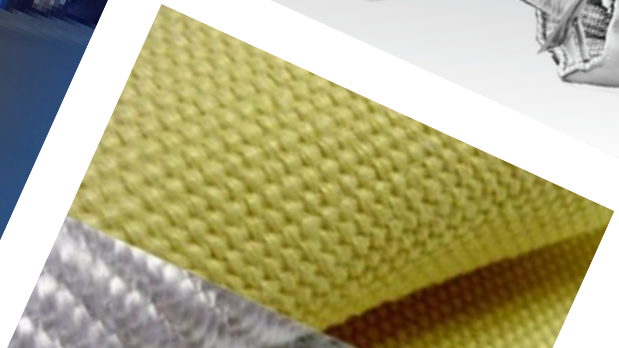
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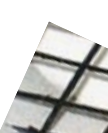
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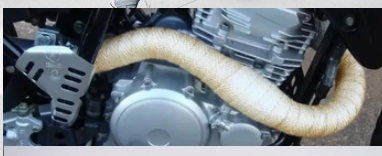
PRIMARY *markets*

- Agribusiness
- Automotive and Aerospace
- Construction
- Sports
- Electrical
- Foundry
- Power Generation
- Chemical and Food Industry
- Medical
- Mining
- Oil & Gas
- Plastic Reinforcement
- Sanitation
- Steel / Metallurgical
















FIBERTEX®
Tecendo tecnologia.

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Welcome to our company!

We are Fibertex

Founded in 1993, Fibertex has professionals with over 40 years of experience. It is a 100% Brazilian company that offers the best solutions in textile products, with cutting-edge technology and maximum efficiency in its manufacturing processes.



PRODUCT LINE





We are manufacturers of technical fabrics made from fiberglass, carbon fiber, aramid, silica, ceramic, and hybrid fibers. Based on these fabrics, we produce a wide range of products such as packings, flame-retardant blankets, flange protectors, tapes, removable thermal insulation, meshes, braids, filters, chopped yarn, abrasive reinforcement meshes, and more.

QUALITY



Our company is **ISO 9001:2015** certified, ensuring process efficiency and product standardization.
The company also holds other product certifications, such as:

- Non-combustibility certification
- Low flame-spread certification
- Non-allergenic certification

OUR PRODUCTS



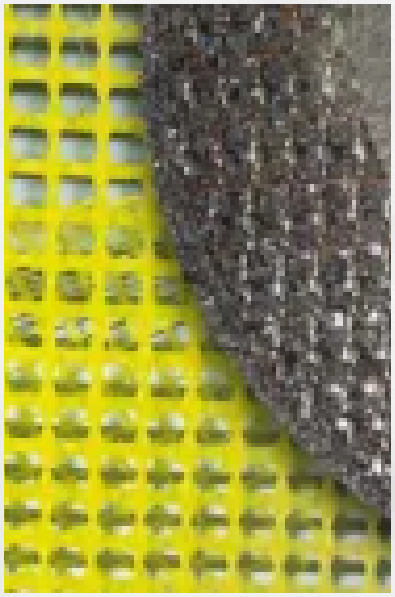
Fabrics for composites



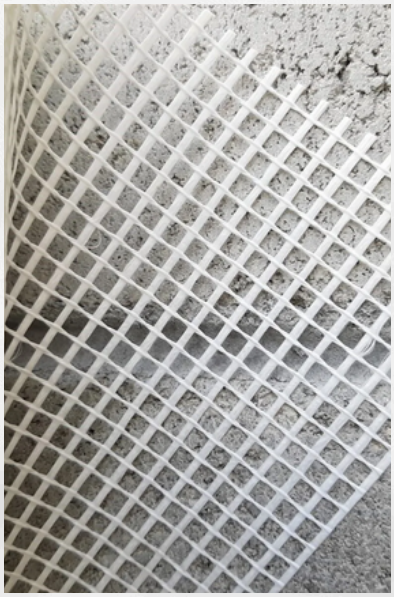
Thermal Insulation



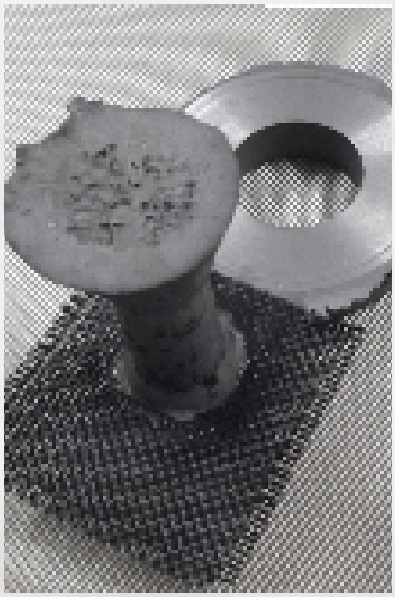
Electrical insulation



Abrasive Reinforcement



Construction



Metal filtration

FIBERTEX® Tecendo tecnologia.

Fabrics for composities

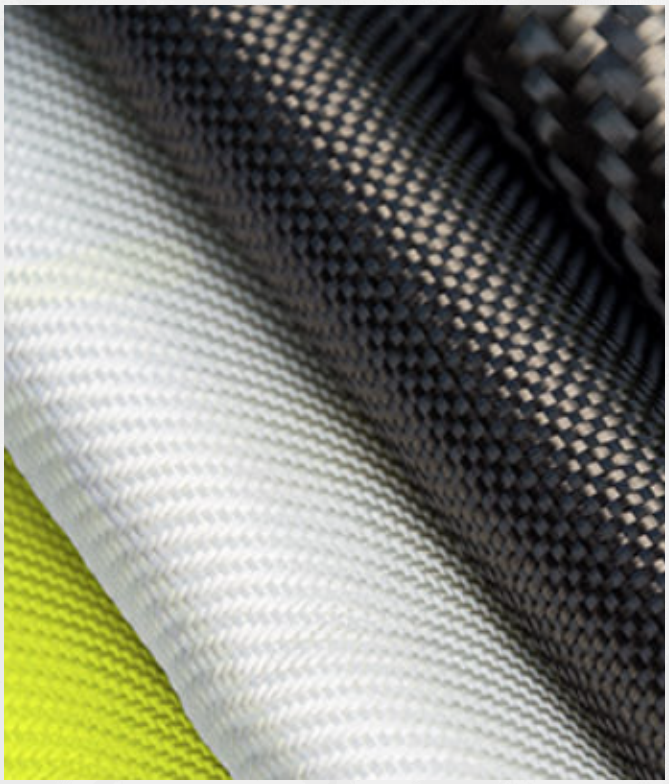
About Composites and Fibertex Technical Fabrics

Polymer matrix composites reinforced with fibers (FRP – Fiber Reinforced Polymers) represent an advanced class of materials designed to deliver high mechanical performance, low density, and excellent durability under severe operating conditions. These materials are formed by the synergistic combination of two main constituents:

- Polymer matrix (resins)
- Fiber reinforcement (fabrics)

The interaction between these phases results in properties superior to those of the individual materials, enabling the development of tailor-made solutions for structural and functional applications.
Fibertex is a national manufacturer of technical fabrics in fiberglass, carbon fiber, aramid, and hybrid fibers, specifically developed for composite and reinforced plastic applications, serving multiple industrial segments.

- Fiberglass fabrics
- Carbon fiber fabrics
- Aramid fiber fabrics
- Hybrid fabrics
- Fiberglass yarns
- Carbon fiber yarns
- Aramid fiber yarns
- Tapes
- Fiberglass mats



Markets & Aplications

Fiber-reinforced composites are widely used in sectors such as:

- Chemical industry (tanks, ducts, scrubbers)
- Oil & gas (piping, offshore structures)
- Energy (wind turbine blades, insulators)
- Transportation (automotive, rail, aerospace)
- Construction (structural reinforcement, pultruded profiles)
- Marine industry
- Sports industry (rackets, bicycles, oars, poles, boats)
- Aviation (parts and maintenance)

Fabrics for composites

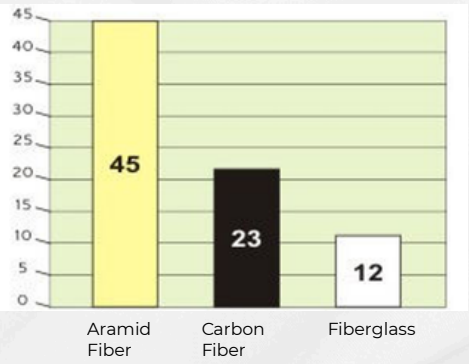
Thickness variation of fiberglass laminates (mm)

Laminate Thickness Guide

Resin/Fiber Ratio	1:1	2:1	2.5:1	3:1
Product Type	Fabrics	---	CSM (Mat)	---
Weight (g/m^2)	(mm)	(mm)	(mm)	(mm)
225	0.27	0.46	0.56	0.64
300	0.37	0.60	0.74	0.90
450	0.55	0.90	1.10	1.30
600	0.74	1.25	1.50	1.70
750	1.00	1.50	1.90	2.10
900	1.10	1.90	2.20	2.60
1200	1.50	2.50	3.00	3.40
1500	1.80	3.10	3.70	4.30

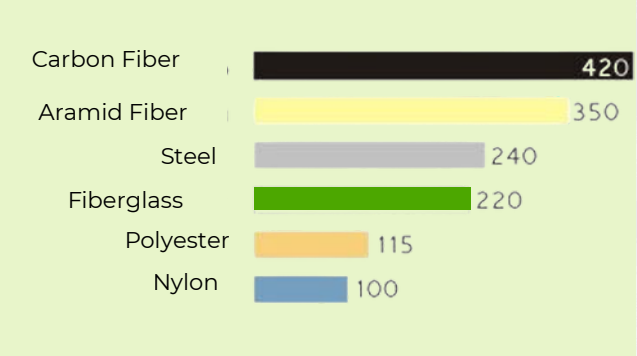
Here you can see the variation in the resin-to-fiberglass ratio in the laminates and the resulting thicknesses for the same grammages, using resin with the same density. The characteristics of the mat and fabric used should be taken into consideration in relation to resin absorption capacity, as each material behaves differently due to its own composition.

Specific energy absorption capacity (mN/tex)



The impact resistance of laminates depends on several factors, one of which is the energy absorption capacity of each fiber.

Tensile strength



Product comparison table

Properties	Unit	Carbon Fiber	Fiberglass	Aramid Fiber
Knot Strength	N	27.5	4.9	59.4
Loop Strength	N	51	26.5	96.1
Moisture Absorption	g	0.04	0.3	4.5
Tensile Strength	GPa	5.4	2.2	2.6
Tensile Modulus	GPa	294	68	128
Breaking Strain	%	1.8	3.2	2
Tensile Strength	kg/mm²	420	320	350
Specific Density	g/cm³	1.8	2.55	1.44
Tenacity	10^3 psi	450	500	425
Elongation at Break	%	1.4	4.8	3.6

Here you can see a comparison between the different types of fabrics and some of their properties. Each of these characteristics determines the correct choice of material according to the technical requirements of the application defined by the customer/project.

Fabrics for composites









Fiberglass

Structure
Fibertex fabrics are structured in different forms:

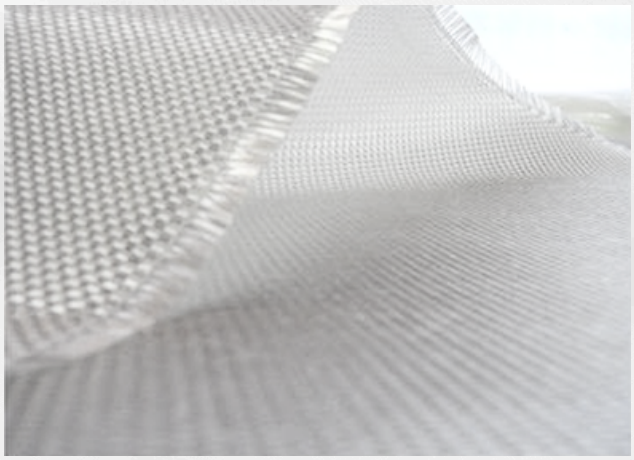
- Unidirectional
- Bidirectional
- Multiaxial

Weave patterns
The fabrics are woven in different patterns, allowing precise control of the laminate's mechanical properties.

The most common are:

- Plain weave
- Twill
- Satin
- Turkish weave

Basis weights & sizes
Fibertex fabrics are supplied in basis weights ranging from 50 g/m² to 1500 g/m².
Fabric dimensions can be supplied in standard widths such as 1.30 m and 1.40 m, or in widths between 100 and 3000 mm.
As manufacturers, we can also develop custom projects

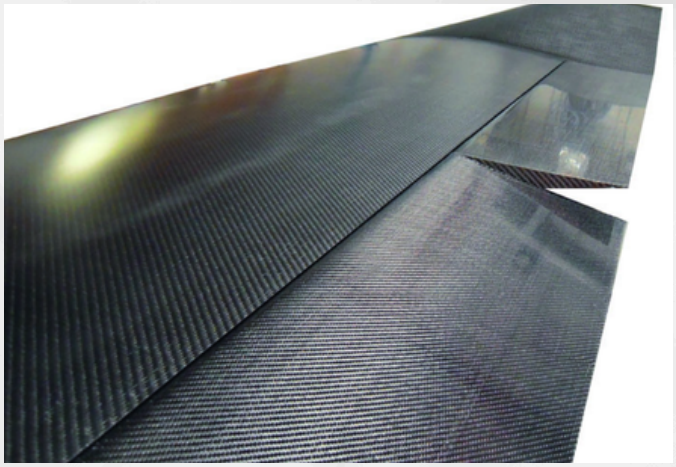


Fabrics for composites









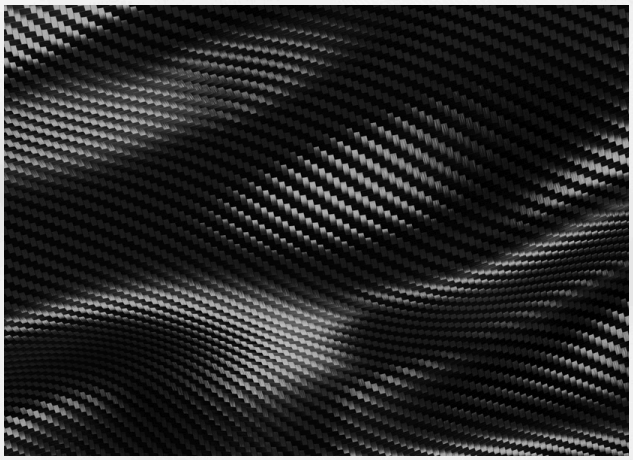
Carbon fiber

Carbon fiber is one of the main reinforcements used in advanced composites (CFRP – Carbon Fiber Reinforced Polymers), standing out for its high mechanical strength, low deformation, low density, and satisfactory thermal and electrical conductivity. These characteristics make the material essential in applications where the strength-to-weight ratio is a critical design requirement.

The use of fiber in composites began in 1967 in the development of space equipment and is still used today.

Characteristics of the fiber + resins:

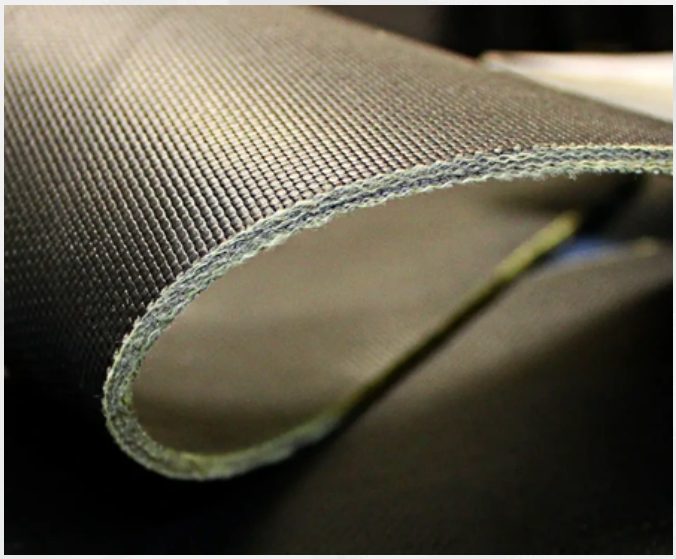
- Significant reduction in structural weight
- High stiffness with minimal deformation
- Fatigue resistance superior to many metals
- Excellent dimensional stability
- Possibility of highly optimized designs



Fabrics for composites







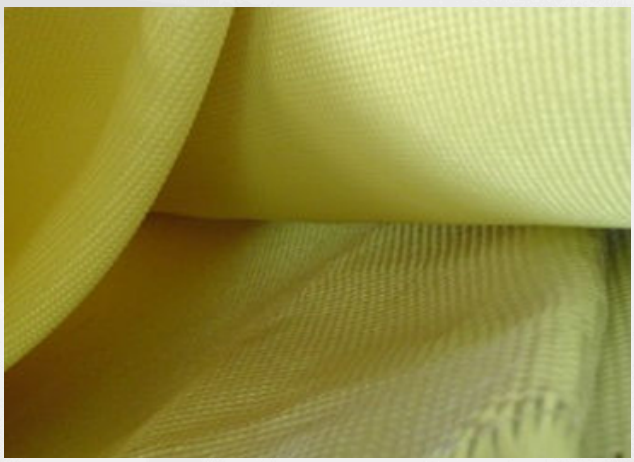
Aramid

Aramid fiber is an engineering material widely recognized for its unique combination of high mechanical strength, low density, and high tenacity. Its use is well established in applications where impact, abrasion, and structural integrity are critical design factors.

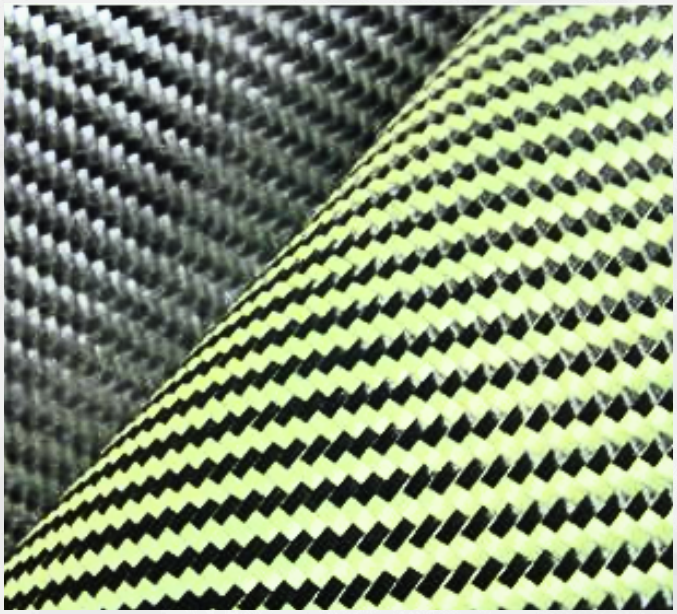
Aramid fiber combines high strength, stiffness, and low specific weight, allowing less material to be used to achieve the same mechanical properties. It is widely used in safety products such as helmets, bulletproof vests, and automotive armor.

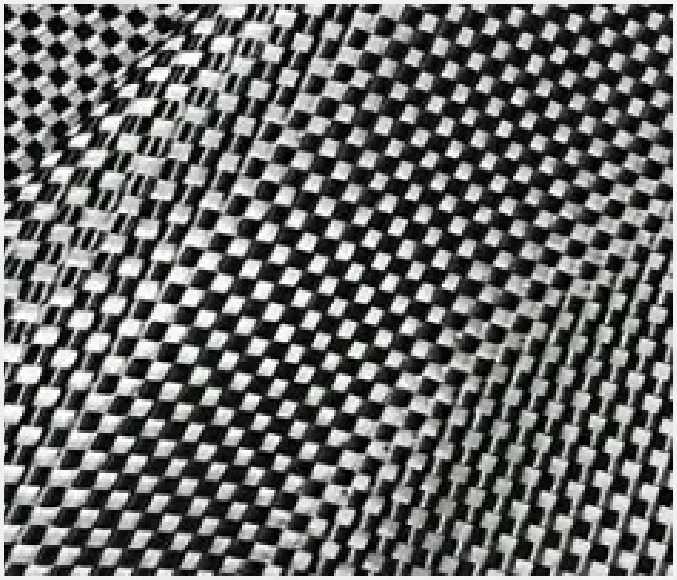
Fiber characteristics:

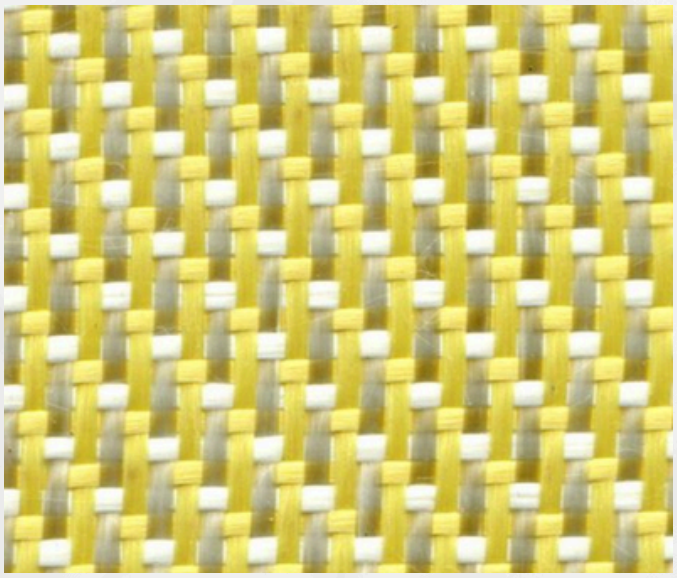
- Resistant to cracking
- Increases structural rigidity
- High energy absorption and low elongation
- Does not corrode in fresh or salt water
- Non-combustible



Fabrics for composites







Hybrid Fabrics

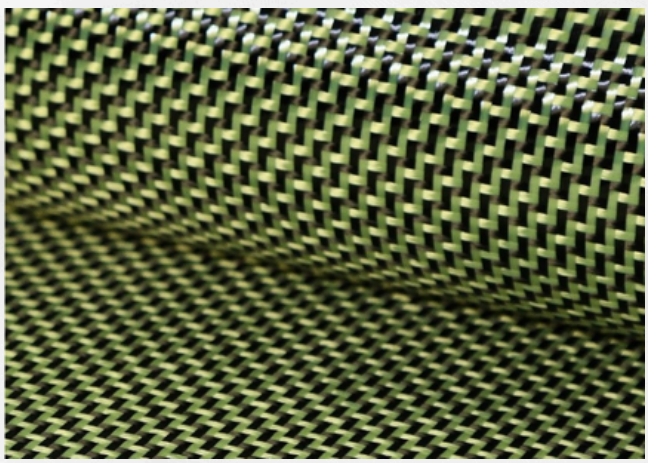
Hybrid fabrics represent an advanced solution in composite engineering, combining two or more types of fibers — such as fiberglass, carbon fiber, and aramid — within the same textile structure. The goal is to integrate different properties into a single material, enabling optimization of mechanical performance, cost, and durability.

Combinations:

Glass + Carbon (Hybrid GFRP + CFRP)
Combines the stiffness and high mechanical strength of carbon with the cost-effectiveness and chemical resistance of fiberglass.

Glass + Aramid
Integrates the chemical and structural resistance of glass with the high impact resistance of aramid.

Aramid + Carbon
Combines high stiffness (carbon) with high tenacity and impact resistance (aramid).



Fabrics for composites





Fiberglass mat

Versatility and Efficiency for Thermal and Industrial Insulation
Widely used in industrial applications that require thermal resistance, insulation, and equipment protection. Manufactured from high-quality fiberglass fibers, the mats deliver excellent performance in high-temperature environments, as well as low thermal conductivity and excellent dimensional stability.
In industry, fiberglass mats are used in the manufacture of removable thermal jackets, insulation for pipes, boilers, furnaces, ovens, process equipment, and exhaust systems. They can also be used as reinforcement in composites and in applications that require protection against radiant heat.

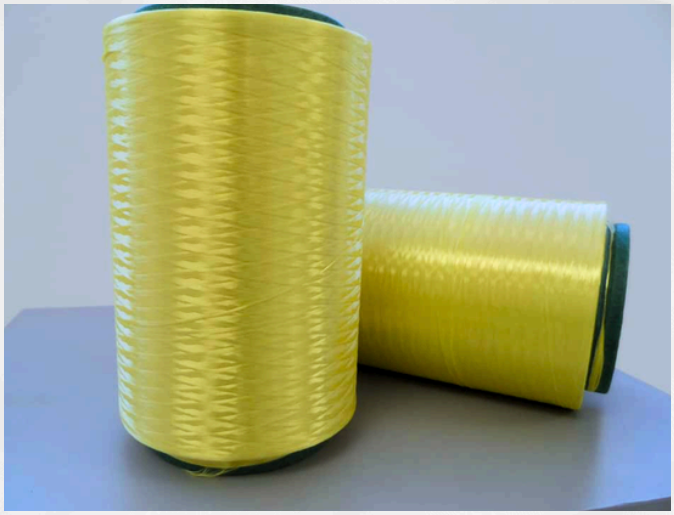
Main benefits:

- Excellent thermal insulation
- Resistance to high temperatures
- Low thermal conductivity
- Lightweight and easy installation
- Durability and corrosion resistance
- Reduction of energy losses
-

Fibertex supplies fiberglass mats in a variety of thicknesses and densities, meeting the most varied needs of the industrial, metallurgical, petrochemical, marine, automotive, and power generation sectors.

Composite Yarns







Fiberglass, carbon, and aramid yarns

Fiberglass, carbon, and aramid yarns are the primary form of reinforcement used in advanced materials engineering. Before being transformed into fabrics, mats, or prepregs, these fibers are arranged into continuous yarns, which already offer high mechanical properties and can be used directly in a variety of industrial applications.

The performance of these yarns is directly related to factors such as:

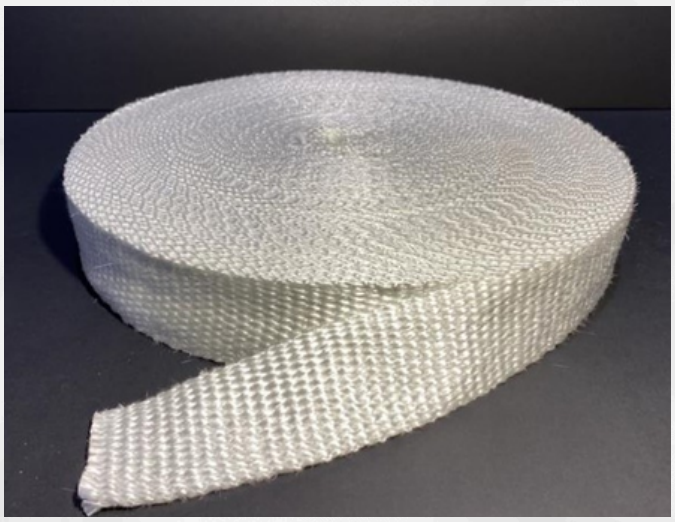
- Fiber type
- Linear density (tex/dtex)
- Number of filaments
- Twist
- Surface treatment (sizing)

Special attention should be given to textured yarns, which provide significant improvements in pultruded profiles, as their open bundles allow the resin to penetrate easily, preventing flaws in the profile.

In addition to serving as the basis for fabrics, yarns can also be used directly in industrial processes:

- Filament winding: continuous winding for vessels and pipes
- Braiding: hoses, cables, and flexible reinforcements
- Pultrusion: continuous structural profiles
- Technical sewing: fastening and reinforcing composites
- Localized reinforcement: targeted load application

Tapes for composites







Fiberglass, Aramid, Carbon, and Hybrid Tapes

Fiberglass tapes are widely used due to their excellent cost-effectiveness, high mechanical strength, and outstanding compatibility with polyester, epoxy, and vinyl ester resins. They are applied in structural reinforcements, lamination of technical parts, manufacturing of pipes, tanks, boats, wind blades, and automotive components.

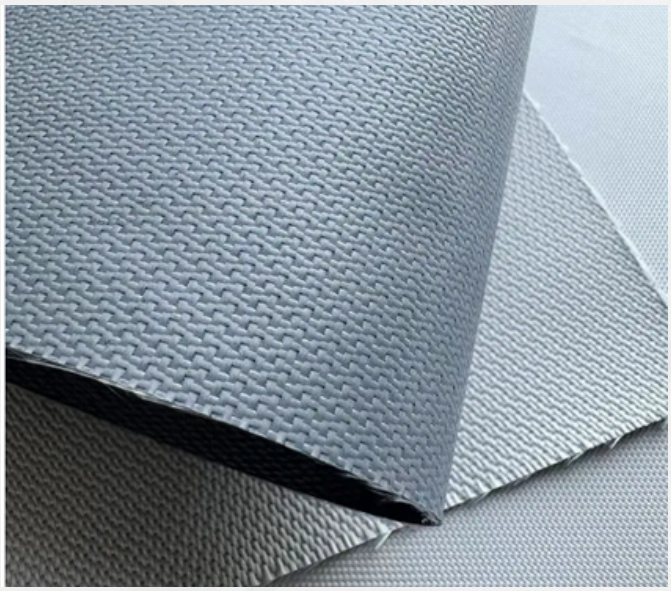
Carbon fiber tapes stand out for their extremely high mechanical strength combined with low weight, making them ideal for applications that require maximum structural performance. Widely used in the aerospace, automotive, sports, and industrial sectors, they provide increased stiffness, weight reduction, and greater part durability.

Aramid tapes offer high resistance to impact, abrasion, and fatigue, as well as excellent thermal stability. They are recommended for applications that require energy absorption and mechanical protection, such as safety components, armor, industrial reinforcements, and parts exposed to vibration or shock.

Hybrid tapes, produced with combinations of fiberglass, carbon fiber, and aramid, combine different properties in a single material. This technology makes it possible to develop lighter, stronger composites with an excellent balance between cost, structural performance, and impact resistance.

Rubberized / Aluminized Fabrics







Coated and Impregnated Technical Fabrics

Modern textile engineering makes it possible to create hybrid materials that combine the structural strength of high-performance substrates with the protective properties of advanced chemical coatings. Treatment with elastomers (rubber coating), non-stick polymers (Teflon/PTFE), and structural resins (epoxy) transforms ordinary fabrics into solutions for industries operating under extreme heat, corrosion, and mechanical stress conditions.

Treatment Technology	Common Bases	Temp. Range	Key Property
Silicone Rubber	Glass	-70°C to 260°C	Flexibility and Non-Stick
Teflon™ (PTFE)	Glass	-70°C to 260°C	Chemical Inertia and Low Friction
Epoxy Resin	Carbon / Glass	Var. (Thermal Cure)	Structural Rigidity and Lightness
Nitrile Rubber	Cotton / Polyester	-30°C to 120°C	Fuel Resistance
Neoprene (CR)	Cotton / Nylon	-40°C to 100°C	Mechanical and UV Resistance

The integration of treatments such as Teflon, epoxy, and elastomers into high-performance textile bases enables industry to overcome temperature and chemical resistance limits. Fibertex, by mastering these technologies, supplies materials that not only protect equipment, but also optimize entire production processes, ensuring durability and safety in environments where conventional materials would fail.

Chevron -

Rubberized cotton canvas with nitrile rubber









Chevron canvas

AChevron fabric is a semi-finished material made from a high-strength cotton textile, specially prepared and impregnated/coated with nitrile rubber (NBR) with a hardness of 70 (+/- 5) Shore A.

The name “Chevron” comes from its main use: the manufacture of Chevron-type packings (also known as V-packings, V-shaped seals, or multi-lip sealing sets).

The cotton textile reinforcement provides excellent dimensional stability, extrusion resistance, and structural support, while the nitrile rubber ensures elasticity, resilience, and high resistance to oils and hydraulic fluids. After impregnation and vulcanization, the fabric becomes a flexible, resistant compound, ideal for forming high-performance sealing rings.

Typical properties of NBR 70 (+/- 5) Shore compound:

Property	Typical Value	Observation
Hardness	70 (±5) Shore A	Balance between flexibility and resistance
Working temperature	-30°C to +100°C (up to +120°C intermittent)	Suitable for industrial hydraulic systems
Resistance to mineral oils	Excellent	Hydraulic oils, greases, and fuels
Abrasion / extrusion resistance	High	Cotton reinforcement critical at high pressures
Permanent deformation	Low / Moderate	Maintains sealing force over time

Main advantages:

- High extrusion resistance: the cotton reinforcement prevents the material from flowing through gaps under high pressure.
- Efficient and progressive sealing: the V shape causes contact pressure to increase with system pressure.
- Durability in reciprocating motion: combines the flexibility of NBR with the mechanical strength of the canvas.
- Excellent compatibility with oils: NBR 70 Shore is the standard choice for mineral hydraulic fluids.
- Adjustable height: the number of intermediate rings can be varied to fit the available space.

Thermal Insulation

Thermal Insulation, Removable Solutions and Passive Protection

Fibertex has a highly specialized and structured in-house manufacturing operation, equipped with machinery and equipment specifically developed for the production and sewing of thermal fabrics. Some items are filled with thermal fibers according to the customer's application needs. We also supply replacement sewing accessories such as hook plates, washer plates, stainless steel wire, Velcro, fiberglass yarn, and aramid yarn.

Fibertex develops solutions in technical textiles and high-performance materials for industrial thermal insulation applications, serving different sectors with quality, resistance, and technology.

- Thermal cushions
- Furnace curtains and welding room curtains
- Thermal jackets for valves
- Thermal protection for hoses
- Flexible ducts
- Non-metallic expansion joints
- Welding cabins
- Fire blankets
- Gaskets
- Tapes
- Fabrics
- Blankets



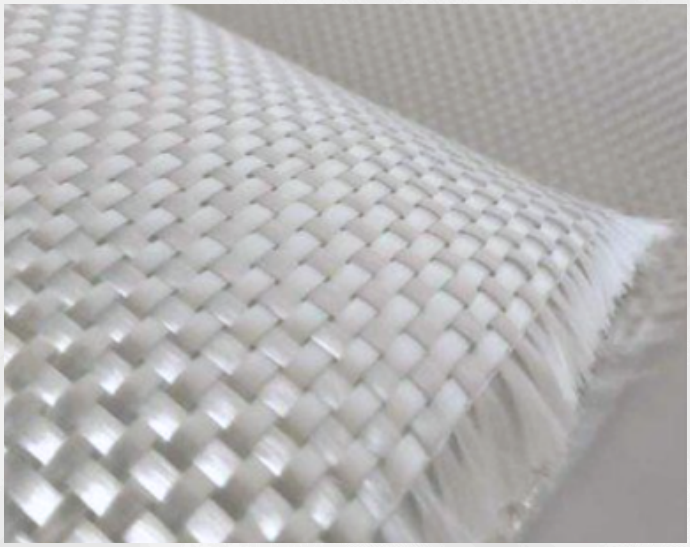




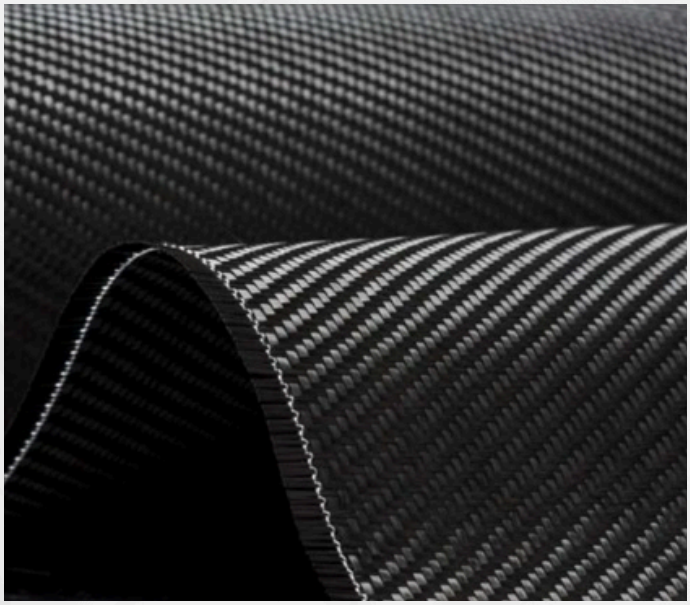
Markets & Applications

- General pipe insulation
- Valve and piping accessories insulation
- Insulation for tanks, reactors, turbines, and various equipment
- Insulation for motors, turbines, generators, and engine rooms
- Fire protection

Thermal insulation







Fabrics and Tapes

Thermal Protection with Smart Materials

Fiberglass fabrics and tapes offer excellent thermal resistance, dimensional stability, and outstanding cost-effectiveness. They are used in thermal blankets, expansion joints, pipe protection, industrial linings, thermal curtains, equipment insulation, and reinforcement for thermal systems.

Aramid fabrics and tapes stand out for their high mechanical and thermal resistance, as well as excellent wear and abrasion resistance. They are widely used in industrial thermal protection, heat barriers, PPE, critical area insulation, and applications that require high durability in severe environments.

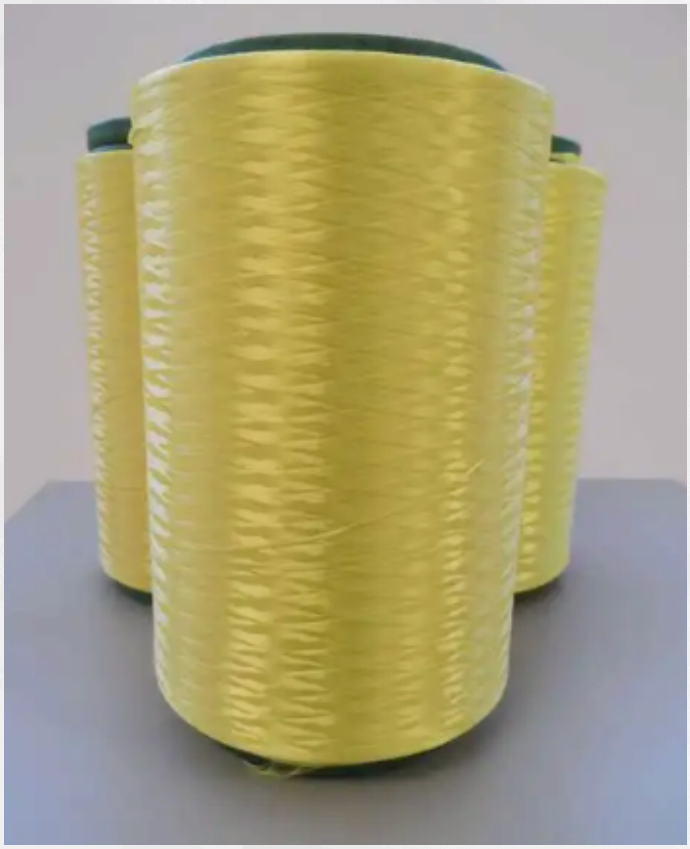
Carbon fiber fabrics and tapes provide excellent thermal resistance combined with high mechanical strength and low weight. They are used in high-performance industrial applications, thermal protection for equipment, composites, and systems exposed to high temperatures and intense mechanical stress.

Ceramic fabrics and tapes are suitable for extreme applications, withstanding very high temperatures and direct contact with intense heat. They are used in industrial furnaces, boilers, gaskets, thermal barriers, hot-line insulation, and protection against flames and molten metal splashes.

Hybrid materials, developed by combining different technical fibers, bring together thermal resistance, mechanical strength, flexibility, and lightness in a single product. This technology makes it possible to create customized solutions for industrial applications that require high thermal and structural performance.

Thermal Insulation







Blankets and Yarns

Yarns

Fibertex offers a complete line of technical yarns for industrial applications that require high mechanical strength, thermal stability, and excellent performance in severe environments. Available in fiberglass, aramid, ceramic, and carbon fiber, our yarns serve a wide range of industrial segments, ensuring quality, safety, and durability.

Main applications:

- Manufacturing of technical fabrics
- Production of industrial gaskets
- Cords and tapes for thermal sealing
- Reinforcement for composite materials
- Thermal and electrical insulation
- Equipment for steelmaking, foundries, petrochemicals, power generation, and the automotive industry

Blankets

Developed to provide high performance in thermal insulation and protection against high temperatures. Manufactured in fiberglass, silica, and ceramic fiber, they provide excellent thermal efficiency, resistance, and safety for industrial processes.

Main applications:

- Insulation of pipes, boilers, and industrial furnaces
- Protection of equipment and components exposed to heat
- Manufacturing of removable thermal jackets
- Thermal barriers for industrial processes
- Steel, metallurgical, petrochemical, glass, cement, foundry, power generation, and automotive industries
- Thermal protection systems for industrial equipment and high-temperature processes

Thermal Insulation









Removable

Smart thermal protection for industrial equipment

Thermal insulation is essential to ensure greater safety, energy efficiency, and equipment protection in industrial environments. It can also be applied in removable form, depending on operational needs.
Removable insulation is ideal for machines and equipment that require frequent maintenance, such as valves, turbines, flanges, motors, exhaust systems, and piping.
These solutions are manufactured using technical fabrics and specific insulating materials designed to withstand high temperatures and severe working conditions.

Main fibers used:

- Fiberglass
- Ceramic fiber
- Silica fiber
- Aramid
- Special hybrid fabrics

Insulating fillings may include:

- Glass wool
- Rock wool
- Ceramic blankets
- Special thermal felts

These materials help to:

- Reduce thermal losses
- Improve energy efficiency
- Protect operators from high temperatures
- Reduce accident risks
- Extend equipment service life
- Facilitate industrial maintenance

Thermal Insulation









Flame Retardant Protection

Fire protection requires advanced technology and high-performance materials

These flame-retardant solutions are designed to increase safety in industrial and automotive environments, as well as in emergency situations, using technical fabrics that resist high temperatures and flame spread.

Fibertex offers fire blankets, curtains, cabins, and explosion-proof covers.

Fire Blankets
Fire blankets are widely used for:

- Initial fire containment
- Protection of equipment and surfaces
- Welding and industrial maintenance
- Temporary thermal barriers
- Operational safety in high-risk areas

Made from fiberglass fabric, the blanket can withstand temperatures up to 500°C.

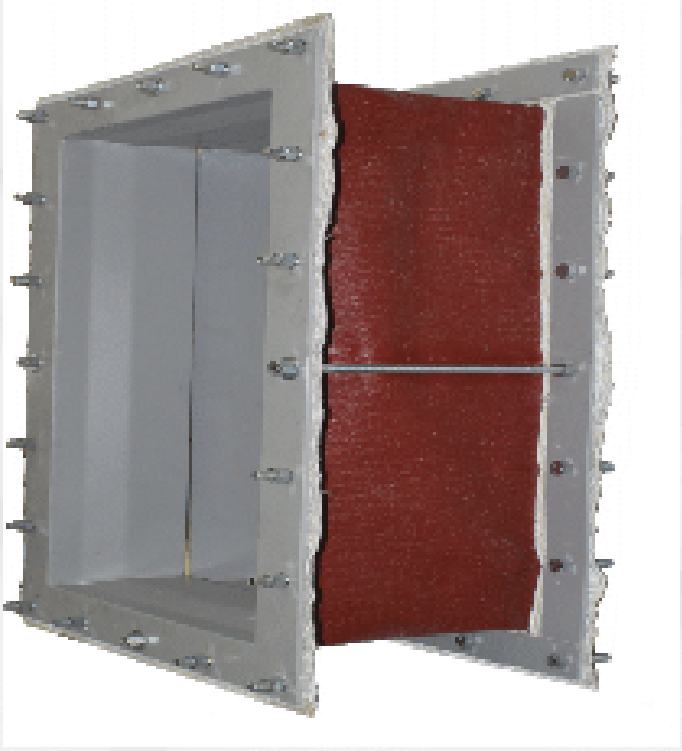
Fire blankets for electric vehicles were developed to help control and isolate fires involving lithium batteries. Made from silica fabric with a silicone coating, they withstand temperatures up to 1200°C.

Fibertex flame-retardant curtains and cabins provide protection and safety in industrial environments.

Fibertex explosion-proof covers provide safety for equipment that may present this type of risk, helping protect the surrounding area.

Fibertex solutions combine technology, durability, and reliability for critical applications.

Thermal Insulation







Non-Metallic Expansion Joints

Non-Metallic Expansion Joints

Fibertex non-metallic expansion joints are designed to accommodate thermal expansion and contraction in equipment and piping systems that undergo significant pressure or temperature variation.

The combination of materials used in these joints provides excellent resistance to corrosion and extreme temperatures, resulting in high insulation capacity, air/water tightness, and reduced vibration and noise. With nearly unlimited flexibility, they allow movement in multiple directions simultaneously and offer countless design possibilities, as they can be manufactured in any size and in circular, square, rectangular, oval, conical, or combined shapes.

As a manufacturer of technical fabrics, our company designs and produces non-metallic expansion joints using its own materials. We supply and engineer both simpler joints with a single layer of fabric and more complex joints with multiple layers of technical fabrics, always considering thermal, chemical, and mechanical resistance, as well as the fatigue properties of the materials.

Thermal Insulation







Gaskets/Cords & Thermal Conduit / Fire Sleeve

Gaskets and Cords

Manufactured from fiberglass, cotton, ceramic fiber, and aramid, these products are developed for thermal sealing and insulation applications in industrial equipment. Made with high-quality raw materials, they offer excellent resistance to heat, abrasion, and mechanical wear, ensuring greater efficiency and operational safety.

Gaskets

Gaskets are widely used in furnace doors, boilers, ovens, inspection covers, thermal systems, and equipment exposed to high temperatures. We offer gaskets in special models and dimensions according to the needs of each project, serving different industrial segments with customized thermal sealing solutions.

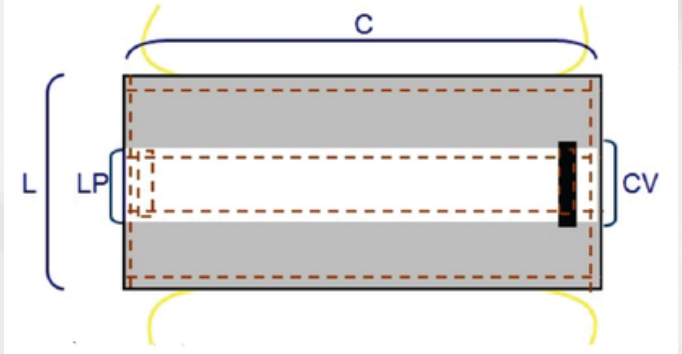
Thermal Conduit / Fire Sleeve

Developed for thermal protection and industrial safety in high-temperature applications. Produced in fiberglass, aramid, ceramic fiber, and hybrid materials, these sleeves can be coated with a special high-resistance silicone, ensuring excellent performance against extreme heat, molten metal splashes, direct flames, abrasion, and chemical agents.
They are widely used to protect hydraulic hoses, electrical cables, harnesses, pipes, pneumatic lines, and industrial systems exposed to severe environments.

Thermal Insulation







Flange Protector

Fibertex Fiberprotect flange guards provide safety and reliability in preventing leaks in pipeline flanges carrying hazardous chemicals in liquid or gaseous form.

Manufactured from high-quality materials, Fiberprotect flange guards are installed with great ease through their Velcro-and-cord closure system, protecting employees, the plant, and the environment from splashes and leaks of aggressive substances that may occur at pipeline flanges.

All Fiberprotect flange guards are closed using Velcro and cords with PTFE treatment. These materials are suitable for temperatures up to 230°C, which meets Class #150 requirements; however, we can develop and produce them for Class #300, Class #600, and other compositions according to application needs.

Protector Measurements for 1" to 12"

ID (in)	C (mm)	W (mm)	FW (mm)	CV (mm)
1/2"	333	162	27	57
3/4"	364	170	30	60
1"	389	176	34	64
1 1/2"	449	188	40	70
2"	478	209	43	73
2 1/2"	609	234	50	80
3"	647	231	53	83
4"	759	251	53	83
6"	927	247	56	86
8"	1,128	274	62	92
10"	1,326	288	65	95
12"	1,567	328	70	100

L: Protector Length - **W**: Protector Width - **FW**: Film Width (where applicable) - **VL**: Velcro Length

Thermal Insulation





Scape chute

Fibertex supplies technical fabrics for the manufacturing of Scape Chutes and industrial thermal protection systems, developed for severe applications requiring high resistance to mechanical stress, abrasion, and temperature.
Scape Chutes are mainly used for conveying, protecting, and containing materials in industrial processes, and are widely applied in mining, steelmaking, cement plants, foundries, metallurgy, and hot material transport.
Industrial equipment can be supplied with the Scape Chute included. The product is manufactured with special fibers selected according to the thermal and mechanical requirements of each application.

Main benefits of Scape Chute:

- High thermal and mechanical resistance
- Protection against abrasion and continuous wear
- Excellent flexibility and operational durability
- Reduction of material loss and particle dispersion
- Resistance to splashes, dust, and aggressive agents
- Operational safety in severe industrial processes
- Custom projects according to dimensions and application

Electrical Insulation

High-performance electrical insulation solutions with safety and reliability for industrial applications.

Fibertex develops technical materials for electrical insulation applications, offering products that combine thermal resistance, mechanical protection, and excellent performance in demanding industrial environments.

The materials — such as yarns, cords, tapes, laces, and meshes — can receive special resin treatments designed to increase electrical protection, improve thermal resistance, and ensure greater durability during application and equipment operation.

- Technical yarns
- Insulating tapes
- Industrial laces
- Special tapes for electrical insulation
- Structural transformer mesh



Markets & Applications

- Electric motors
- Transformers
- Special harnesses and cables
- Industrial equipment
- Thermal and electrical protection systems
- Electromechanical applications

Electrical Insulation







Fios e Fitas

Tapes or Laces
Thanks to their structural properties, fiberglass tapes are widely used as electrical and thermal insulation for motors, transformers, generators, and other electrical equipment, as well as for reinforcing and protecting telephone and electrical cables against various external factors.

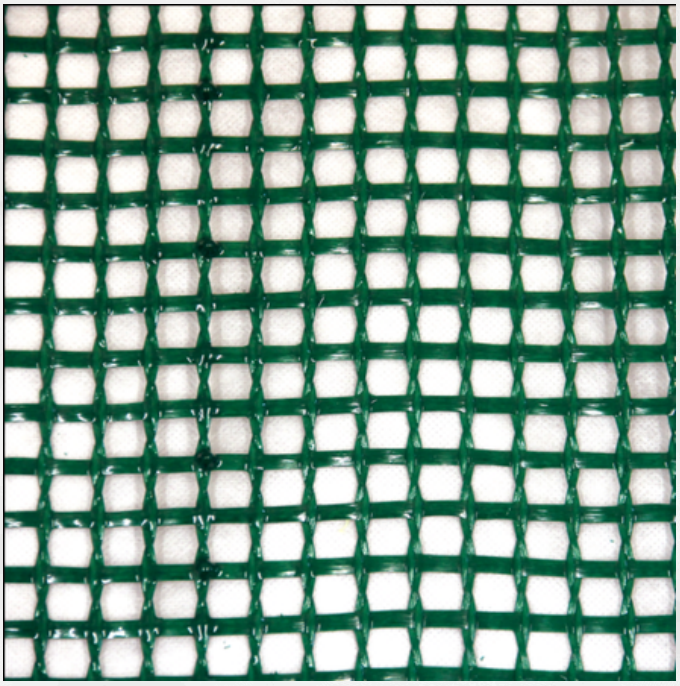
Special Tapes
Fibertex produces pre-preg tapes treated with special non-conductive resins. They are widely used for insulation and identification of electrical cable veins and wires, providing a high-performance, high-quality finish.

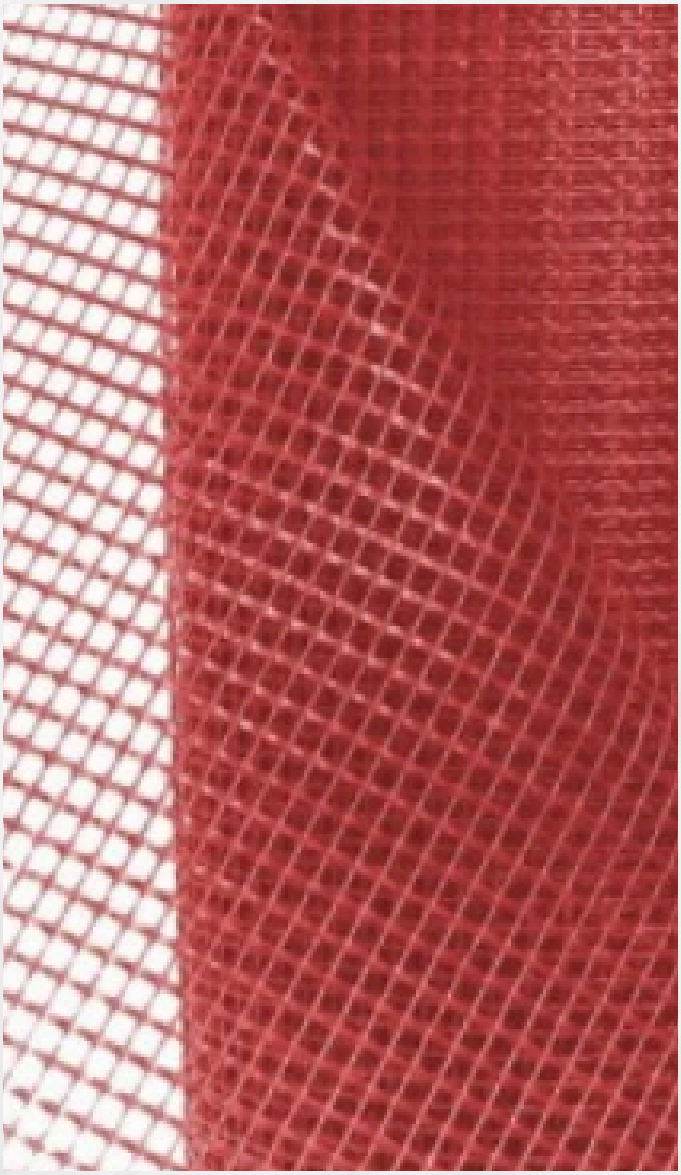
Yarns
We offer yarns made of fiberglass, aramid, carbon, and ceramic in different counts (tex = g/km), in natural or twisted versions, with one or multiple plies. They can also receive special treatments that prevent fraying during application.

The yarns are used for:

- Sewing
- Cable covering
- Support for fiber optic cables
- Telephone cables
- Gaskets
- Hose coverings
- Pultrusion
- Plastic reinforcement
- Brake linings
- Belts
- Filament winding

Electrical Insulation





Fiberglass Mesh

Fiberglass mesh is widely used in the manufacturing and maintenance of large transformers to reinforce and structure electrical insulation systems.

When impregnated with epoxy resin, fiberglass mesh forms a robust structure that helps support the insulating mass around the transformer coils. Its construction keeps the spacing between the threads uniform and provides mechanical reinforcement to the assembly, contributing to dimensional stability and resistance to the electromechanical stresses generated during equipment operation.

In addition to internal use, fiberglass mesh can also be applied externally as a protective grid in field-installed transformers. In this case, it acts as a physical barrier that prevents birds from nesting and the accumulation of combustible materials such as straw, leaves, and twigs, significantly reducing the risk of short circuits, operational failures, and fire incidents.

Typical applications:

- Electrical insulation for coils and windings
- Structural reinforcement in power and distribution transformers
- Protective barriers for electrical equipment
- Bird-proof grids for transformers and substations
- Equipment for power generation, transmission, and distribution

Abrasive Reinforcement

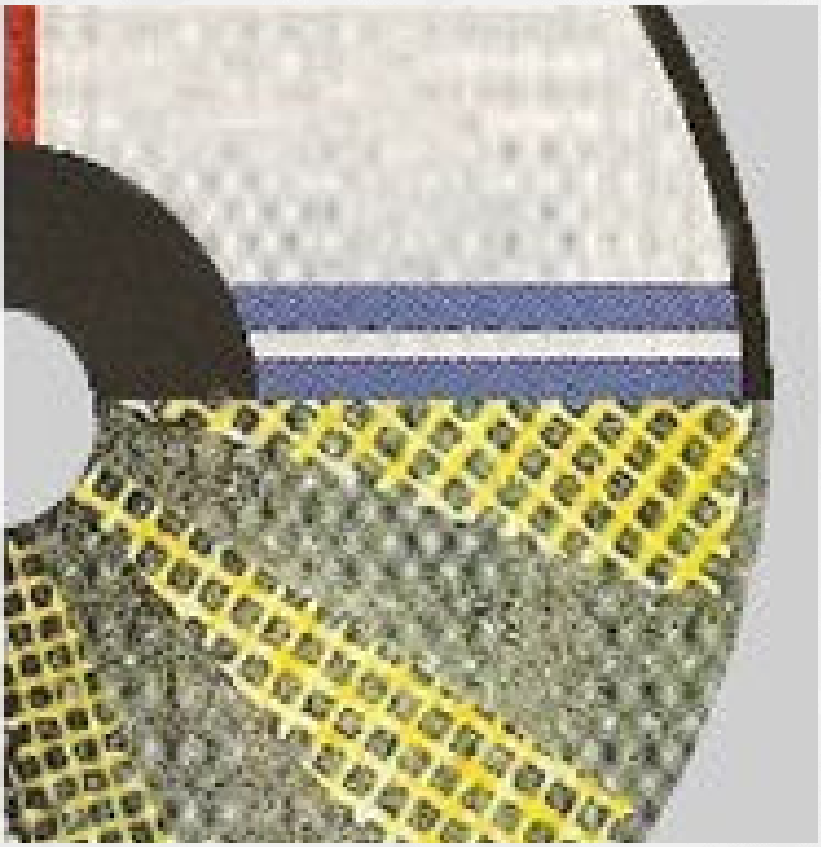
Abrasive reinforcements are materials used to increase the strength and durability of abrasive products, such as cutting discs and sandpaper. They are generally made from fiberglass together with other high-strength materials and are incorporated into abrasives to provide greater stability and safety during use.

- Abrasive Reinforcement Mesh
- Fiberglass Reinforcement Yarns
- PTFE Separator Mesh

Main functions

- Increased mechanical strength: provide structural support to the abrasive, allowing it to withstand higher pressure.
- Safety: prevent catastrophic failures, offering greater safety for the operator.
- Durability: maintain the shape and performance of the abrasive for longer, even in intense applications.

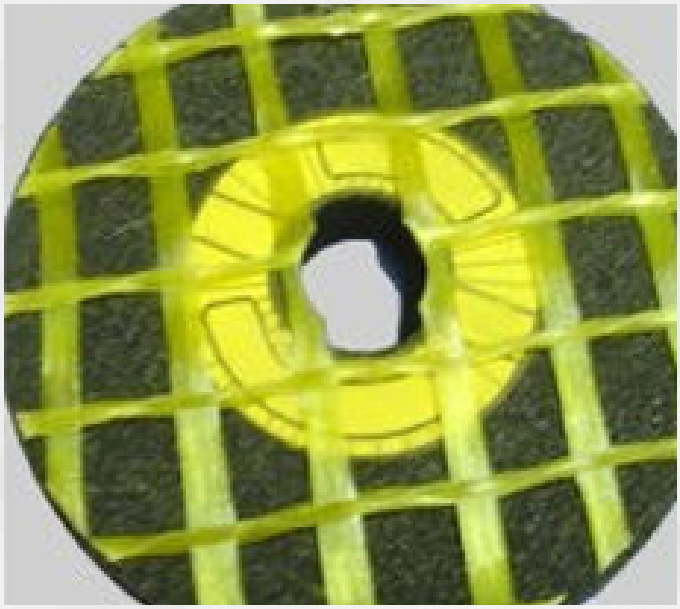
These reinforcements are widely used in the manufacture of cutting discs and grinding wheels, industrial abrasives, and other products where reinforcement and abrasion resistance are essential.

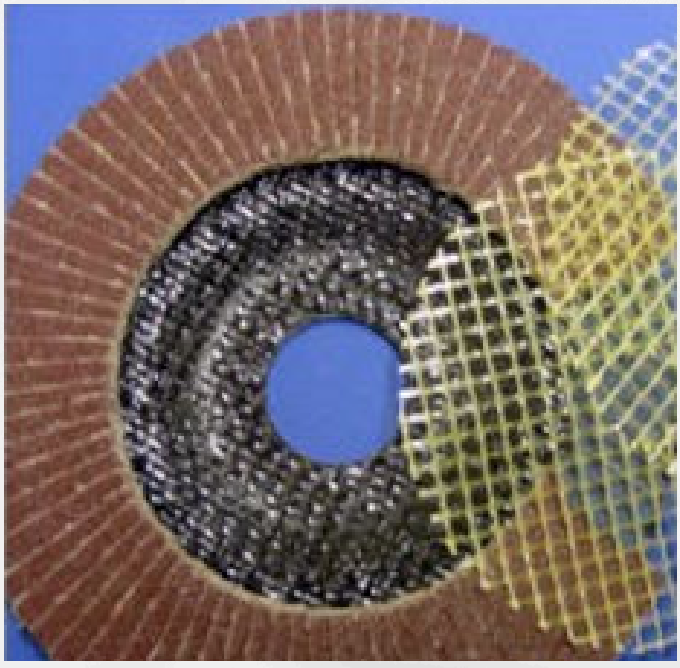


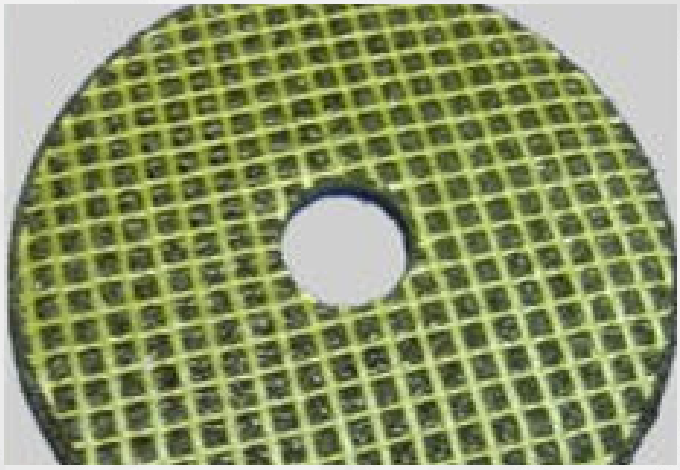
Markets & Applications

- Grinding discs
- Grinding wheels
- Flap discs
- Cutting discs

Abrasive Reinforcement







Reinforcement Mesh

Advantages and Uses

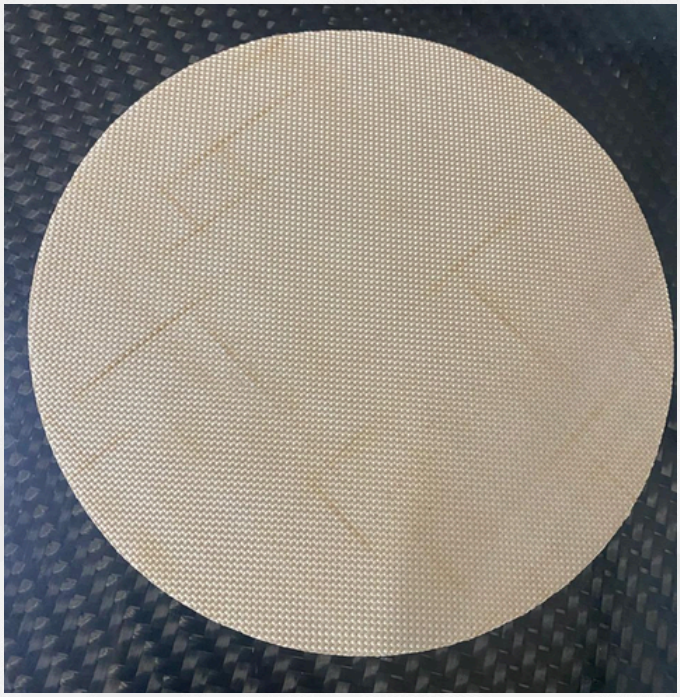
Fibertex mesh is manufactured from high-strength, low-elongation yarns, produced in various weave patterns and impregnated with special resins. The product line in this segment includes different types of meshes and thicknesses ranging from 0.15 mm to 2.5 mm, meeting the requirements of each type of abrasive. The mesh size also ranges from 6 mm to 900 mm in diameter.

The manufacturing quality of Fibertex meshes ensures extremely high resistance in the final product, complying with national and international standards, ensuring excellent performance at high speeds and providing complete safety for users.

In addition to all these advantages, Fibertex brings to the market an innovative resin-finishing technology that eliminates the use of plastic films as separators. Even without plastic, the finish prevents the meshes from sticking to one another. This innovation makes the user's work easier, increases production speed, and makes an important contribution to environmental preservation.

Fibertex mesh is now widely used by several nationally produced abrasive brands.

Abrasive Reinforcement



PTFE mesh for separation of cutting discs during the curing process.

PTFE (Polytetrafluoroethylene) meshes are widely used in the cutting and grinding disc manufacturing industry as separator material during the thermal curing process. Their main function is to prevent adhesion between abrasive discs and support surfaces or between the discs themselves during the pressing and curing stages in industrial ovens and furnaces.
Produced with PTFE-coated fiberglass fabric, these meshes offer excellent thermal resistance, dimensional stability, and non-stick properties, making them indispensable for ensuring quality and productivity in abrasive manufacturing.



Fiberglass yarns for reinforcement

Fiberglass Yarns for Reinforcement of Special Grinding Wheels (Roving)
Fiberglass roving yarns are reinforcement materials widely used in the manufacture of special grinding wheels and industrial abrasive tools. Developed to provide high mechanical strength and structural stability, these yarns play a fundamental role in increasing the safety, durability, and performance of grinding wheels during cutting, grinding, and rectification operations.
Produced from continuous fiberglass filaments grouped in bundles, rovings offer excellent compatibility with phenolic resins and other binder systems used in the abrasive industry. Their application directly contributes to reinforcing the internal structure of the grinding wheel, reducing risks of rupture during high rotations and intense mechanical stresses.

Civil Construction

The civil construction industry has been undergoing a technological transformation driven by the pursuit of lighter, stronger, more durable, and sustainable structures. In this context, Fibertex technical fabrics have gained prominence as advanced solutions for structural reinforcement, building restoration, protection, and high-performance engineering.

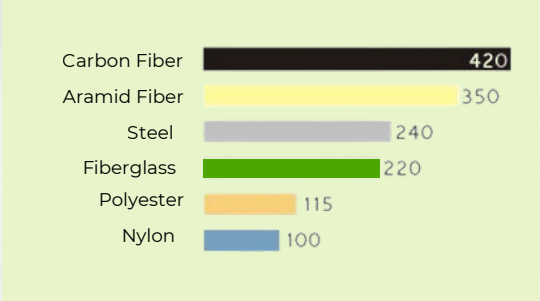
Fiberglass, aramid, and carbon fiber fabrics are produced from special yarns arranged in specific patterns for the civil construction sector, and are also treated with special resins for protection against alkali attack and anti-mold treatment.

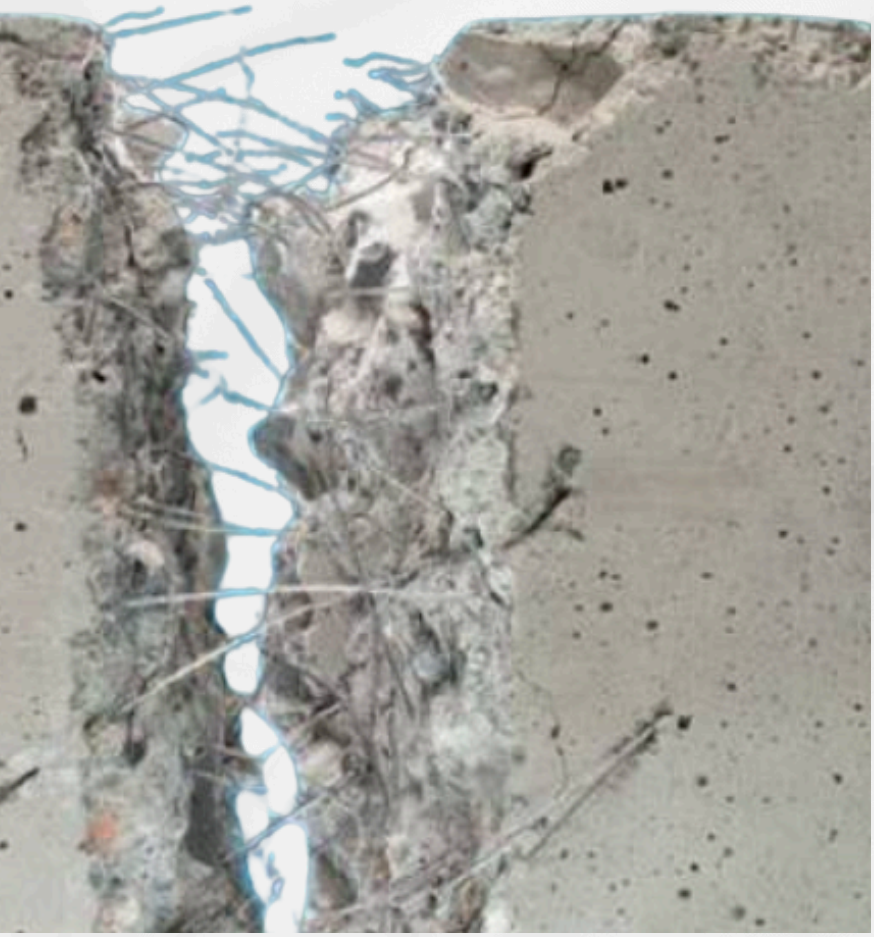
Characteristics such as breaking strength, extremely low elongation percentage, and flexibility are standout qualities of these products.

See the tensile strength table of technical fabrics on the side

- Fiberglass fabrics
- Carbon fiber fabrics
- Fiberglass meshes
- Chopped strand
- Tapes

Tensile Strength





Applications:

- Concrete and masonry reinforcement;
- Facades and architectural panels;
- Structural composite systems (GFRP);
- Repairs on beams, columns, and slabs;
- Waterproofing and anti-corrosion reinforcement.
- Mosaic and stone support
- Drywall

Civil Construction







Fabrics and Tapes

Fiberglass Fabrics and Tapes

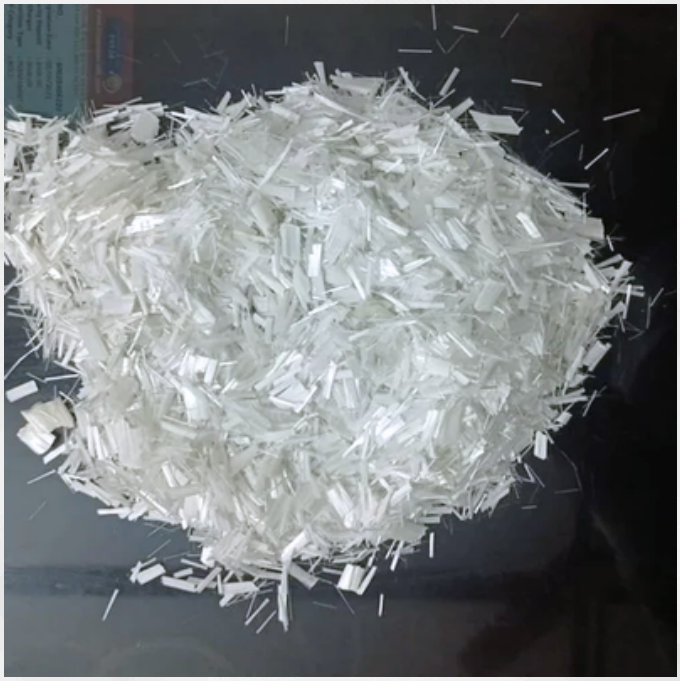
Used in structural applications due to their high mechanical strength, low thermal and electrical conductivity, and corrosion resistance. Applied in:
Concrete and masonry reinforcement
Facades and architectural panels
Structural composites (GFRP);
Repairs on beams, columns, and slabs;
Waterproofing
Recent studies highlight the growing use of fiberglass rods and laminates as an alternative to steel, due to corrosion immunity and reduced maintenance.

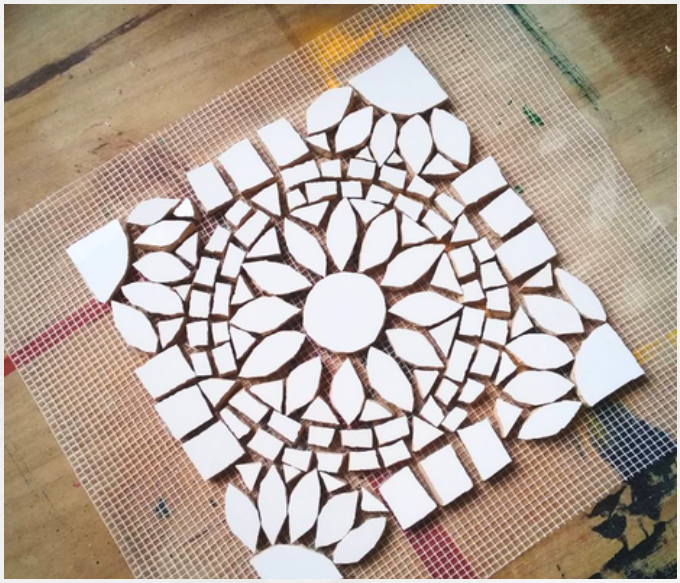
Carbon Fiber Fabrics and Tapes
Offers high mechanical strength and extremely low weight. Widely used in:
Structural recovery of bridges and overpasses;
Column and beam reinforcement;
Retrofit works;
Structures subject to heavy loads;
High-performance constructions

Aramid Fiber Fabrics and Tapes
Stand out for their resistance to impact, fatigue, and dynamic stresses. Used in:
Seismic reinforcement;
Structures subject to vibration;
Impact protection;
Reinforcement of bridges, tunnels, and special structures;
Severe industrial environments.

Their high energy absorption capacity and excellent fatigue resistance make aramid a differentiated solution for critical engineering applications.

Civil Construction







Chopped Strand, Meshes, and Tapes

Chopped Strand

An efficient solution for reinforcing concrete and mortars. Its application directly contributes to increased mechanical strength, crack reduction, and greater structural durability.

When incorporated into concrete, the fibers act as micro-reinforcements distributed throughout the mass, helping control plastic shrinkage and minimizing cracks caused by mechanical stresses, impacts, and thermal variations. The material has excellent chemical resistance, low weight, and does not corrode.

Meshes

Ensure greater mechanical and structural strength while preserving material integrity during transport, installation, and use. They are applied to the back of marble and granite slabs as structural reinforcement, reducing the risk of breakage, cracks, and chipping, especially in more delicate or large-format slabs. In the cladding sector, meshes are used in mosaics and tiles to facilitate application and provide better alignment and fixing of pieces.

Anti-Alkali Fiberglass Tapes

The tapes have excellent mechanical strength, dimensional stability, and durability. Developed to assist in structural reinforcement, finishing, and protection in different construction systems. They are applied in drywall, corner reinforcement, waterproofing, and cementitious composites. They help prevent cracks and increase the strength of surfaces subjected to stresses and movements. We offer tapes in different widths, weights, and with special treatments.

Non-Ferrous Metal Filtration

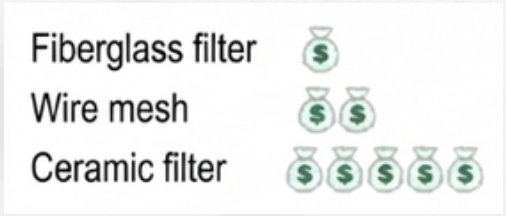
- Filters
- Meshes

Fibertex's different types of filters are developed for primary filtration, recycling, transfer, chills, open molds, sands, and others.

Fibertex filters are manufactured with silica fiber, glass, or carbon fabrics and impregnated with special resins that do not emit gases and can be supplied with ceramic or carbonized treatment. The filter can have different numbers of holes per square inch to adjust to the desired metal flow distribution. Filter dimensions can be customized according to the customer's needs and can be supplied as finished filters and meshes.

These filters have as their main function to retain impurities, non-metallic inclusions, slag, and contaminating particles during metal pouring, ensuring a cleaner and more uniform flow. The result is a final part with higher quality, mechanical strength, and superior surface finish.

Fiberglass filters are more affordable than other filters, see the comparison below:



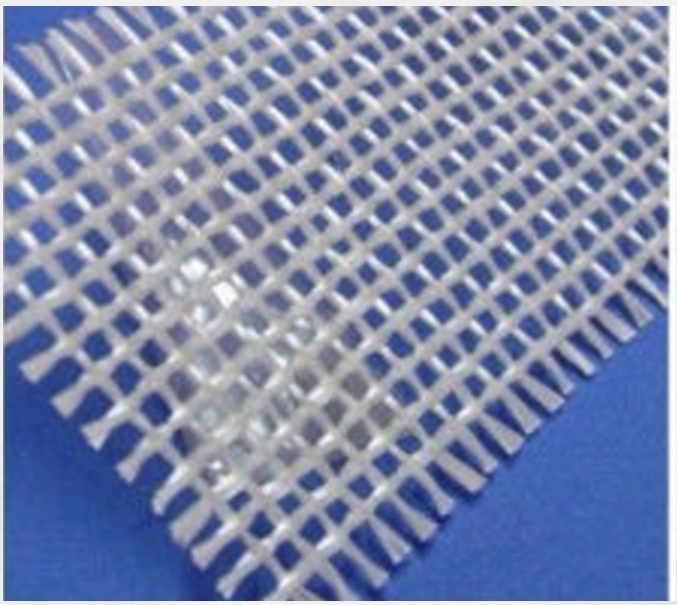


Applications:

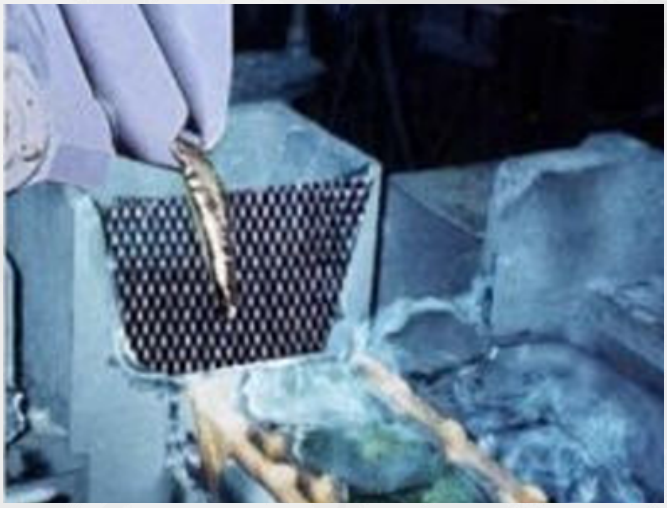
Liquid metal filtration for the manufacture of:

- Engine blocks
- Cylinder heads
- Brake discs and drums
- Pistons
- Suspension and transmission components
- Automotive wheels
- Electrical and electronic components
- Precision metal structures

Liquid Metal Filtration







Filters and Meshes

Specially developed for liquid metal filtration processes in foundries and metallurgical industries, the filters have as their main function to retain impurities, non-metallic inclusions, slag, and contaminating particles during metal pouring, ensuring a cleaner and more uniform flow. The result is a final part with higher quality, mechanical strength, and superior surface finish.

Main benefits of Fibertex filters:

- Reduction of defects and porosities in cast parts
- Greater metallurgical quality control
- Increased strength and performance of parts
- Improved surface finish
- Reduction of losses and industrial rework
- High thermal and chemical resistance
- Excellent dimensional stability even at high temperatures

The technical materials used by Fibertex offer high resistance to thermal shock and excellent performance in severe applications, serving different industrial processes that work with non-ferrous liquid metals.

Fibertex Filter Characteristics

Holes/in²	Treatment	Thickness (mm)	Weight (g/m²)	Pattern
47	TC	0.60	240	English twill
315	TC	0.60	290	1×1 weave
232	TC	0.50	300	1×1 weave
84	Carbonized	0.70	340	1×1 weave
100	Carbonized	0.65	360	1×1 weave
100	TC	0.70	400	1×1 weave
75	TC	0.70	436	1×1 weave
162	TC	0.80	496	1×1 weave

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