High-Performance Composite Material Solutions

INNOVATION · RELIABILITY · FUTURE

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01 Company Overview



Strategy First

We adhere to a market-oriented approach, formulating forward-looking technical and market strategies to ensure a leading position in fierce competition.



Operational Excellence

We are committed to efficient operations and superior product quality, winning customer trust and market share to achieve sustainable development.



Management-Oriented

We establish a scientific and standardized management system, focusing on talent cultivation and team building to lay a solid foundation for the company's long-term development.

02 Core Product System

A Rich Product Line to Meet Diverse Needs

We offer composite materials across 19 categories, widely used in new energy, transportation, industrial manufacturing, and other fields, providing customized solutions for different industries.

1. Basic Protective Cloth Series

- Silicone Fire Cloth
- High-Temp Resin Fire Cloth
- Single/Double-Sided Aluminum Foil Cloth

2. Functional Protective Cloth Series

- Steel Wire Cloth / Steel Wire Expansion Cloth
- Anti-static / Color-Changing Silicone Cloth
- Vermiculite Cloth / High Silica Cloth

3. New Energy Safety Solutions

- Battery Protection Bag (for energy storage)
- Active Fire Extinguishing Products

02 Core Product System

A Rich Product Line to Meet Diverse Needs

01 Basic Protective Fabric Series

- Liquid & Solid Silicone Fireproof Fabric
- High-temperature Resin Fireproof Fabric
- Single-sided / Double-sided Aluminum Foil Fabric
- Dyed Fabric
- Vermiculite Coated Fabric
- High Silica Fabric
- Dewaxed Fiberglass Cloth
- Ceramic Fiber Cloth

02 Functional Protective

- Steel Wire Reinforced Fabric
- Steel Wire Expandable Fabric
- Anti-static Fabric
- Color-Changing Silicone Fabric

03 Featured Product Details: Silicone Fireproof Cloth



Core Technology

Uses calendered silicone rubber composite technology with a smooth surface and high structural stability.

Temperature Resistance

Withstands long-term temperatures of**230-300°C**and short-term higher temperatures.

Features

Combines high temperature resistance, weather resistance, and waterproofing with high flexibility and tear resistance.

Application Scenarios

Suitable for sealing, fire protection, and flexible connections in industrial circulation environments.

This product provides long-lasting and reliable protection for your equipment due to its advanced technology and stable physical and chemical properties, making it an excellent choice for sealing and protection challenges.

03 Featured Products: High-Temp Resin Fireproof Cloth



Excellent Temp Resistance

Stable at**300-600°C**, short-term up to**800°C**, adapts to extreme temp differences.

Long Outdoor Lifespan

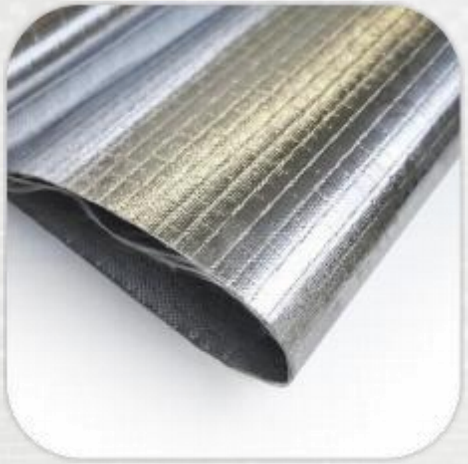
Service life up to **8~15 years**, with excellent anti-aging and ozone resistance.

Core Applications

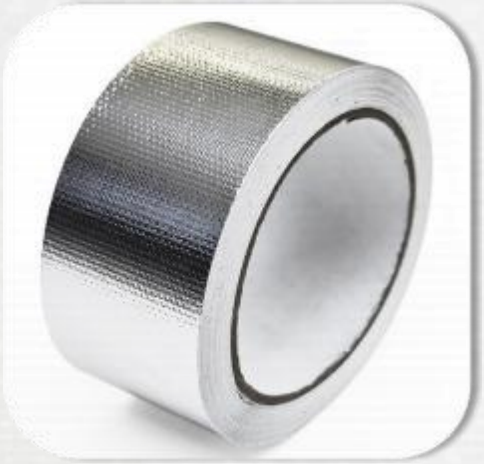
Pipe Compensators · High-Temp Flues · Welding Fireproofing · Electrical Insulation

With excellent temperature resistance and weatherability, it is the first choice for fireproofing, heat insulation and insulation in power, metallurgy, chemical and other industrial fields.

03 Featured Product Details: Single/Double-Sided Aluminum Foil Cloth



Grid Foil cloth



Aluminum Foil Tape



Silica Gel Foil



Expanded Foil

Aluminum Foil Thickness

Standard thickness **6-9μm**, light reflectivity up to **85-95%**, with excellent performance.

Energy Saving & Insulation

Improves building energy efficiency by over **50%**, and reduces duct heat loss by up to **60%**.

Three Core Functions

Integrates multiple practical features in one: excellent **flame retardancy**, **anti-corrosion**, and efficient **heat insulation**.

Double-Sided Advantages

Unique **double reflection** effect & excellent **EMI shielding** capability, perfectly suited for high-frequency shielding scenarios.

03 Featured Product Details: Steel Wire Cloth / Steel Wire Expansion Cloth



Steel Wire Cloth

Tested in accordance with GB/T 9978.1-2008 Fire resistance test methods for building elements — Part 1: General requirements, its fire resistance (integrity) exceeds 2.00 hours.

High-strength Composite Fireproof Fabric

Tested in accordance with GB/T 9978.1-2008 Fire resistance test methods for building elements — Part 1: General requirements, the fire resistance integrity exceeds 180 minutes.

Expansion Cloth

Made of 304 steel wire and glass fiber composite, it resists temperatures of 1500~1800℃. It can expand 1 to 50 times when heated, and is acid & alkali resistant across pH 0~14. An ideal material for high-temperature heat insulation and sealing.

Core Application Scenarios

Metallurgical industry sealing | Industrial furnace fire prevention | Power station equipment lining

03 Featured Product Details: Anti-static Silicone Cloth



Core Advantage: Long-lasting Anti-static

Surface resistivity: 106~109Ω. It effectively prevents static accumulation and eliminates potential safety hazards caused by static electricity.

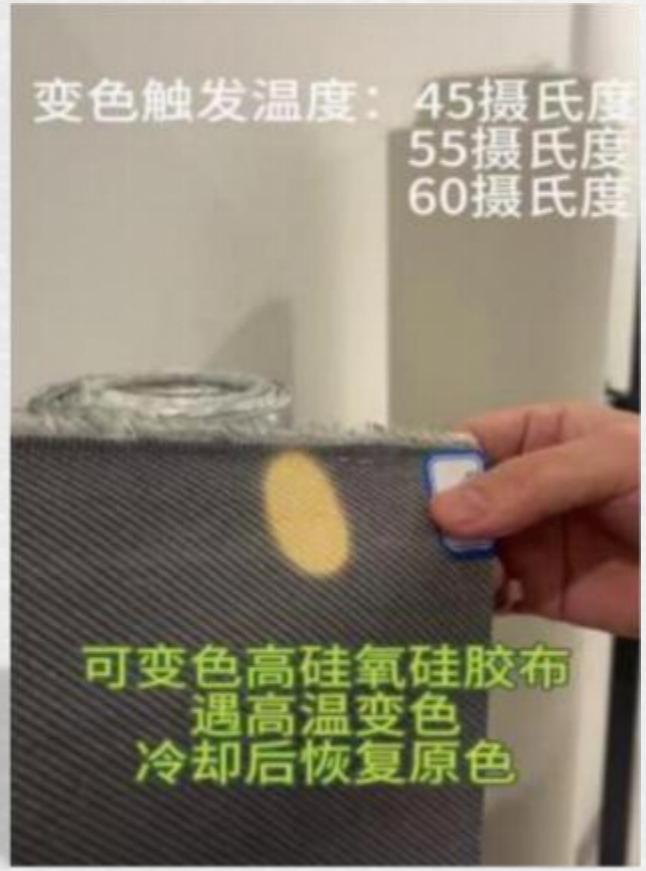
Comprehensive Features: Multi-functional Protection

High temperature resistance, fireproofing, flame retardancy, acid and alkali resistance, environmental protection, smooth surface, and easy cleaning and maintenance.

Application Scenarios

Suitable for making anti-static flexible connection air ducts and for equipment sealing and covering in dusty environments in the chemical and electronics industries.

03 Featured Product Details: Color-Changing Silicone Cloth



Core Principle

High silica base cloth combined with a color-changing fire-resistant coating for both strength and functionality.

Intelligent Color Change

Turns **yellow above 45°C** and reverts to gray when cooled, providing an intuitive warning.

Extreme Temperature Resistance

Long-term resistance to **900-1000°C**, with heat insulation and no asbestos.

Wide Range of Uses

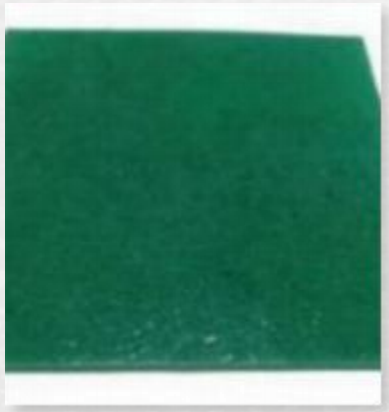
Suitable for temperature warning, high-temperature protection, and welding heat insulation.

Color-changing silicone cloth combines "visual warning" with "physical protection," providing an innovative and safe solution for high-temperature operations.

03 Featured Product Details: Active Fire Extinguishing Products







Efficient Fire Extinguishing

Activates quickly within 3 seconds and can be reused more than 3 times.

Flexible Installation

Strong adhesive for direct mounting, with customizable sizes to fit needs.

RecommendedModels:wv TPC10050IMY TPB10050IMY TPA10050

Our active fire suppression products can activate and extinguish fires within 3 seconds at the early stage of fire outbreak, putting out fires at the initial stage.

Featuring a unique self-adhesive design, they are extremely easy to install and reusable for multiple times with no complicated maintenance required. They provide an active, reliable and cost-effective fire safety solution for key equipment such as automobile engine compartments and energy storage cabinets.

03 Key Product Introduction: Dyed Fiberglass Fabric



Excellent durability

Resistant to chemical corrosion, including strong acids, strong alkalis, aqua regia and various organic solvents. It features excellent chemical resistance, UV resistance and anti-static performance.

Smooth in use

It features an extremely low friction coefficient and superior oil-free self-lubricating performance. With high tensile strength and stable mechanical properties, it is the optimal choice for oil-free lubrication working conditions.

Core Application Scenarios

The fiberglass surface is coated with special slurry and dyes. This treatment fixes the fabric texture, reduces surface fuzz, covers gaps between yarns, boosts wear resistance and makes cutting easier. Select dyes can greatly improve the fabric's resistance to oil and solvents.

It is widely applied to ship hulls, storage tanks, cooling towers, vessels, vehicles, tank containers and building structural materials. Custom water-based colors are available.

03 Key Product Introduction: Acrylic Fireproof Fabric







Acrylic Fireproof Fabric

Acrylic fire-retardant coating is a one-component air-drying weather-resistant anti-corrosion paint. It is produced with advanced processes based on traditional acrylic resin, blended with internationally recognized long-service chlorosulfonated polyethylene rubber, weather-resistant pigments, fillers and additives.

Performance Advantages

Excellent anti-corrosion performance. The coating boasts outstanding resistance to chemicals, water, alkali, salt, seawater and oil, along with great anti-aging capability.

It delivers superior decorative effects. The coating film is full, smooth and glossy, featuring good friction resistance, stain resistance and impact resistance. It comes in a wide range of attractive colors.

Easy to apply and curable at ambient temperature. It can form a film at 5~40℃, or be baked for 30 minutes at 60~80℃ to complete film formation.

Core Application Scenarios

Building fire barriers and wall fire cladding

Equipment thermal wrapping and mechanical insulation sleeves

03 Featured Product Details: Other High-Performance Fiber Cloths



Vermiculite Cloth

◇**Temperature Resistance:**Continuous 900°C, short-term 1000-1260°C.

◇**Key Features:**100% asbestos-free, non-combustible, and safe.



High Silica Cloth

◇**Composition:**SiO_2 content**>96%**.

◇**Temperature Resistance:**Long-term 1000°C, short-term 1200°C.



Ceramic Fiber Cloth

◇**Temperature Resistance:**1000-1400°C, refractoriness under load of 1650°C.

◇**Key Features:**Low thermal conductivity, excellent heat insulation, and easy cutting.

We offer a variety of high-performance fiber cloths with temperature resistance ranging from 900°C to 1650°C, precisely meeting the needs of various extreme high-temperature industrial applications.

03 Featured Product Details: PVC Series



PVC Cloth / Tarpaulin

- **Water pressure resistance:**≥2000mm, seamless welding technology.
- **Durability:**Temperature resistance -30°C~70°C, UV50+ anti-aging.
- **Core applications:**Logistics vehicles, industrial shelters, agricultural greenhouses.



PVC Membrane Structure / Air Mold

- **Product features:**High strength, lightweight, good light transmittance, quick construction.
- **Main applications:**Sports venues, exhibition centers, commercial sunshades, etc.

04 Core Product Advantages



Wide Temperature Range

Full coverage from -70°C to 1800°C, easily tackling complex and extreme working environment challenges.



Comprehensive Protection

Integrates fireproofing, heat insulation, anti-corrosion, insulation, anti-static, and explosion-proof functions in one.



High Customization

Size, material, function, and color can be flexibly customized according to needs.



Environmental & Safe

Asbestos-free, non-toxic, and odorless, strictly meeting national safety and environmental protection standards.



Long Lifespan

Stable outdoor use for 8-15 years, effectively lowering long-term maintenance and replacement costs.

05 Application Overview



Industrial Sector

Covers chemical, petroleum, metallurgy, power generation, heavy machinery, and various pipeline sealing systems, providing stable and durable high-performance sealing and protection solutions for core industrial production links.



New Energy Sector

Empowers large-scale energy storage, power batteries, and new energy vehicle industries, providing high-quality high-temperature resistant, insulating, and heat-proof materials to ensure the safety and efficiency of energy conversion and power systems.

05 Application Overview



Construction Sector

Widely used in various large venues, outdoor exhibition areas, and other scenarios. Product coverage: membrane structures, thermal insulation and waterproofing, fire barriers, emergency life-saving facilities, etc.



Fire Protection Sector

Acts as a safeguard for life safety, providing professional protection and fire-fighting products: fire blankets, fire curtains, high-temperature protective clothing, active fire extinguishing systems, etc.



Other Sectors

Continuously expanding application boundaries, covering more national economic pillar industries: precision electronics, modern smart logistics, and efficient ecological agriculture.

Technology as the Root • Quality as the Foundation

Join Us to Create a Reliable Future

Thank You