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MING YANG GLASS FIBER

JIANGXI MING YANG GLASS FIBER CO., LTD.

Product Catalog

In-house weaving, coating, and laminating since 2001.

25	5,000t	300+	50+
Years Mfg	Annual Capacity	Professional Clients	Export Countries

ISO 9001:2015 · SGS Audited · TÜV Rheinland

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Section 01

Custom Manufacturing

This catalog presents our standard platforms — proven configurations we produce regularly. But for most procurement managers, the right product is not the one listed here. It's the one we engineer together.

> **What "In-House" Actually Means**
>
> We own the looms. We own the lamination machine. We own the coating line. When you request a different foil thickness, a heavier base fabric, or a custom color — we adjust parameters on our own equipment. No subcontracting. No broker delay.

Dimensions You Control

Parameter	Available Range
Aluminum Foil Thickness	7μm / 9μm / 18μm / 20μm — 8011 / 1235 alloy
Fabric Weight	100 – 1,500 g/m² E-glass woven
Width	100 – 2,000 mm
Weave Pattern	Plain, twill, satin
Coating / Laminating	Aluminum foil, silicone rubber, ceramic silicone, PET, PE — single or double side
Color	Red, gray, green, black, custom
Adhesive Type (Tapes)	Solvent acrylic, water-based acrylic, flame-retardant
Packaging	Kraft paper, PE bag, palletized export cartons

How We Work

1. You send your spec. Temperature, dimensions, environment, application, any standards (ASTM / EN / SOLAS).

2. We engineer a recommendation. Drawing from 25 years of material experience.

3. We produce samples. Free samples for your evaluation — shipped within 3 days.

4. Approved specs go into production. Full QC, batch COA, export packaging.

> **Not a Match? Just Ask.**
>
> If our standard platforms don't fit, tell us what you're trying to achieve. We'll give you an honest assessment of what's feasible — and what's not.

Section 02

Product Overview

Five product families built on three base fabric grades. Every product starts from E-glass yarn woven in-house.

Product	Type	Temperature	Weight	Key Strength	Best For
Aluminum Foil Fabric	Flagship	Up to 300°C	200–490 g/m²	95% heat reflection	Pipe & duct insulation, automotive, radiant barriers
Silicone Coated Fabric	Coated	-50°C ~ +260°C	500–1,170 g/m²	A2 fire class · waterproof	Expansion joints, welding blankets, insulation covers
Ceramic Silicone Products	Specialty	Up to 1,000°C	—	UL94 VTM-0 · ≥15KV	EV battery packs, busbar insulation, high-voltage protection
Double-Sided Foil	Laminated	-40°C ~ +260°C	460 g/m²	97% reflection, both sides	Suspended thermal curtains, cavity insulation
Perforated Foil	Laminated	-40°C ~ +260°C	230 g/m²	Breathable + reflective	Anti-condensation HVAC, cold storage
Industrial Tapes	Adhesive	-40°C ~ +260°C	240–285 g/m²	Self-adhesive, quick install	HVAC sealing, coil wrapping, pipe joints
Fiberglass Insulation Tape	Adhesive-free	-50°C ~ +550°C	120–450 g/m²	No residue, woven E-glass	Pipe insulation, coil & cable wrapping, heat shielding

Section 03

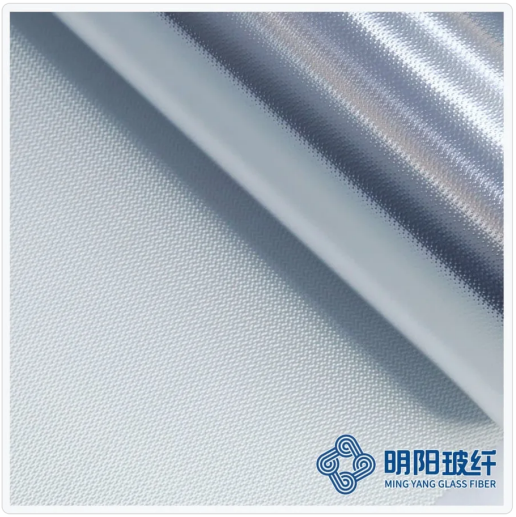
Aluminum Foil Laminated Fabric

Our flagship product family. E-glass fabric laminated with aluminum foil — mechanical tear resistance combined with 95% radiant heat reflection. Four standard models, all customizable.

FA6480 · Flagship

300°C Continuous | PET Enhanced | 3732 Base

Structure	6μm aluminum foil + 18μm PET + adhesive + 3732 glass cloth
Weight	490 g/m²
Thickness	0.44 mm
Width	1.0 m / 1.2 m or custom
Length	100 / 200 / 500 / 1,000 m or custom
Heat Reflectivity	≥ 95%
Temperature	300°C continuous × 3h — no delamination
MOQ	1,000 m²
Lead Time	3–7 days
Applications	Pipe & duct insulation, equipment shielding, building radiant barriers, automotive heat shielding



The PET-enhanced construction adds a vapor and mechanical barrier beyond standard foil fabrics. The 3732 twill-weave base provides superior tear resistance. The embossed foil surface improves flexibility around curved pipes and irregular shapes.

A-Series · Standard Aluminum Foil Fabrics

Model	Foil	Base Fabric	Weight	Thickness	Tensile	Width	MOQ
A6200	6μm	180 g/m²	200 g/m²	0.20 mm	≥ 600 N/25mm	1.0–1.25 m	5,000 m²
A6280	6μm	256 g/m²	280 g/m²	0.29 mm	≥ 800 N/25mm	1.0–1.25 m	5,000 m²
A9240	9μm	210 g/m²	240 g/m²	0.20 mm	≥ 800 N/25mm	1.22 m	5,000 m²

All A-series: acrylic adhesive, room-temperature service, roll packaging. A9240 uses 9μm foil for higher reflectivity without excessive weight gain.

Selection Guide

FA6480 — 300°C + max durability. A9240 — thicker foil (9μm), better reflection, lighter than FA6480. A6280 — highest tensile. A6200 — lightest. Not sure? Tell us your operating conditions.

Section 04

Silicone Coated Fabric

Silicone rubber coating on E-glass woven fabric. Flexible, waterproof, A2 fire-rated. Four certified variants — each with distinct specifications verified by in-house testing.

3732 Single-Sided Silicone · Model 3732-500

Single Side | 3732 Base

Coating	Single side — industrial-grade silicone rubber
Finished Weight	506.5 g/m² (std. 500 ± 5%)
Base Fabric Weight	421.6 g/m² (3732, 420 ± 5%)
Coating Weight	84.9 g/m² (std. 80 ± 10%)
Coating Ratio	16.8%
Thickness	0.39 mm (std. 0.4 ± 0.02)
Warp Tensile	≥ 1,394 N/25mm (std. ≥ 1,000)
Weft Tensile	≥ 1,982 N/25mm (std. ≥ 700)
Fire Rating	A2 (EN 13501-1)
Test Standards	JC/T 170-2012 (thickness) · GB/T 7689.5-2013 (tensile)

3732 Double-Sided Silicone · Model 3732-580

Double Side | 3732 Base

Coating	Double side — industrial-grade silicone rubber
Finished Weight	593.6 g/m² (std. 580 ± 5%)
Base Fabric Weight	426.5 g/m² (3732, 420 ± 5%)
Coating Weight	167.1 g/m² (std. 160 ± 10%)
Coating Ratio	28.2%
Thickness	0.43 mm (std. 0.4 ± 0.02)
Warp Tensile	≥ 2,151 N/25mm (std. ≥ 1,000)
Weft Tensile	≥ 1,407 N/25mm (std. ≥ 700)
Fire Rating	A2

3784 Double-Sided Silicone · Model 3784-1160

Double Side | 3784 Base | Heavy-Duty

Coating	Double side — industrial-grade silicone rubber
Finished Weight	1,170.3 g/m² (std. 1,160 ± 5%)
Base Fabric Weight	846.2 g/m² (3784, 840 ± 5%)
Coating Weight	324.1 g/m² (std. 320 ± 10%)
Coating Ratio	27.7%
Thickness	0.83 mm (std. 0.8 ± 0.02)
Warp Tensile	≥ 2,385 N/25mm (std. ≥ 1,800)
Weft Tensile	≥ 2,641 N/25mm (std. ≥ 1,200)
Fire Rating	A2

The heaviest silicone fabric we produce. 3784 base fabric at 840 g/m² delivers exceptional mechanical strength. Ideal for large-scale expansion joints and heavy-duty removable insulation covers where structural integrity is critical.

High-Silica Double-Sided Silicone · Model 1550-530

Double Side | High-Silica Base | Premium

Coating	Double side — silicone rubber on high-silica fabric
Finished Weight	533.6 g/m² (std. 530 ± 5%)
Base Fabric Weight	402.5 g/m² (high-silica, 400 ± 5%)
Coating Weight	131.1 g/m² (std. 130 ± 10%)
Coating Ratio	24.6%
Thickness	0.52 mm (std. 0.5 ± 0.02)
Warp Tensile	≥ 1,224 N/50mm (std. ≥ 1,000)
Weft Tensile	≥ 1,259 N/50mm (std. ≥ 700)
Fire Rating	A2

High-silica base fabric provides superior thermal resistance beyond standard E-glass. This is our premium silicone fabric — specified when standard E-glass silicone fabrics don't meet the required temperature or fire-resistance threshold. Note: tensile strength measured per 50mm (not 25mm).

Silicone Fabric Comparison

Model	Base	Sides	Weight	Thickness	Warp (N)	Weft (N)	Coating %
3732-500	3732 / 420g	Single	506.5	0.39	1,394	1,982	16.8%
3732-580	3732 / 420g	Double	593.6	0.43	2,151	1,407	28.2%
3784-1160	3784 / 840g	Double	1,170.3	0.83	2,385	2,641	27.7%
1550-530	High-Silica / 400g	Double	533.6	0.52	1,224*	1,259*	24.6%

* Tensile measured per 50mm for high-silica (others per 25mm). All fire rating: A2. All test standards: JC/T 170-2012 & GB/T 7689.5-2013.

Section 05

Ceramic Silicone Products

Ceramifying silicone rubber on E-glass fabric — forms a rigid ceramic shell under flame exposure. Engineered for EV battery pack insulation and high-voltage electrical protection.

Ceramic Silicone Self-Adhesive Tape

Key Features

Ceramifies under fire: forms a rigid, hard ceramic shell at 1,000°C — maintains electrical insulation and fire barrier integrity after ablation. Halogen-free & eco-friendly: no toxic fumes. Excellent adhesion: no edge lifting, strong bond. Tear-resistant: withstands acid, alkali, UV exposure. Long service life. RoHS compliant.

Structure	Ceramifying fire-resistant silicone + glass fiber + acrylic adhesive + release liner
Density	≤ 1.55 g/cm³
Temperature Range	-15°C to 1,000°C
Tensile Strength	≥ 20 MPa
Dielectric Strength	≥ 15 KV/mm
Volume Resistivity	≥ 10^{12} Ω·m
Withstand Current	< 0.1 mA
Flame Rating	UL94 VTM-0
Initial Tack	≥ 9 (rolling ball method)
180° Peel Strength	≥ 0.75 N/25mm
Holding Power	≥ 72 hrs (≥ 10^{14})
Width	20 – 1,000 mm or custom
Thickness	0.25 – 0.35 mm (excl. release liner) or custom
Length	2,000 – 5,000 mm/roll or custom
Colors	White, black, orange, silver-gray, custom
Compliance	RoHS

Key Applications

EV Battery Packs: steel strap, copper busbar, aluminum busbar insulation. High-Voltage Electrical: connector and wiring harness protection. Industrial: automotive, power electronics, chemical, aerospace, rail transit — anywhere flame + high voltage coexist.

Under flame exposure, the silicone compound ceramifies into a hard, rigid shell that maintains electrical insulation and fire barrier integrity. Halogen-free. Service life tested for long-term reliability.

Section 06

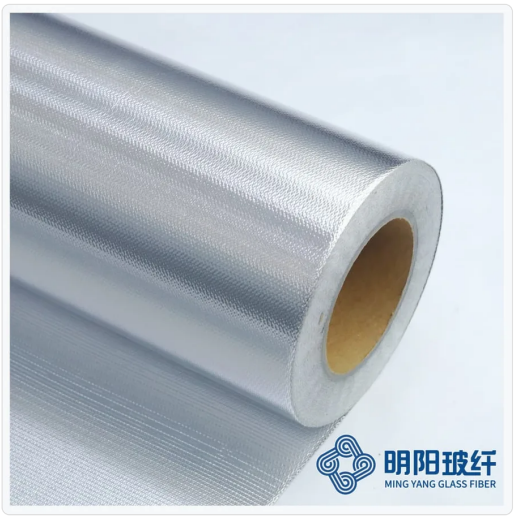
Double-Sided & Perforated Foil

Two specialized variants of our foil-laminated fabric for specific application requirements.

B6460 · Double-Sided Foil Fabric

Double-Sided 97% Reflection

Structure	6μm foil + adhesive + 420g glass cloth + 6μm foil
Weight	460 g/m²
Thickness	0.45 mm
Density	43 × 30 fiberglass yarn/cm
Reflectivity	97% — both sides
Temperature	-40°C to +260°C (no delamination)
Width / Length	1.0–1.5 m / 50–2,000 m
MOQ / Lead	1,000 m² / 3–15 days

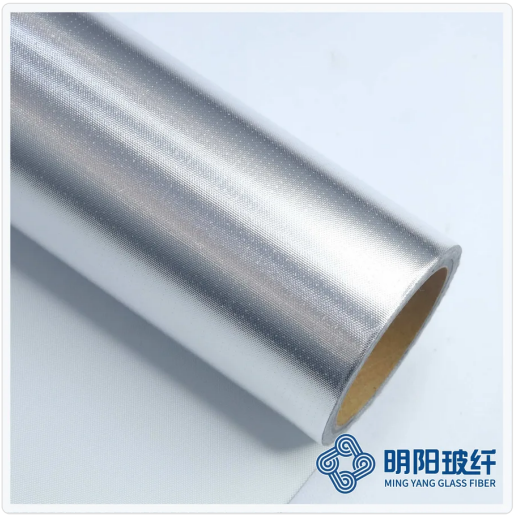


Identical 6μm foil on both faces — reflects radiant heat from both directions. For suspended thermal curtains, cavity insulation, and dual-direction equipment shielding.

A6230 · Perforated Foil Fabric

Breathable Anti-Condensation

Structure	6μm foil + adhesive + 210g glass cloth (pre-punched)
Weight	230 g/m²
Thickness	0.22 mm
Open Area	1–5% (customizable)
Reflectivity	Up to 90%
Temperature	-40°C to +260°C (no delamination)
Width / Length	1.0–1.5 m / 50–2,000 m
MOQ / Lead	1,000 m² / 3–15 days



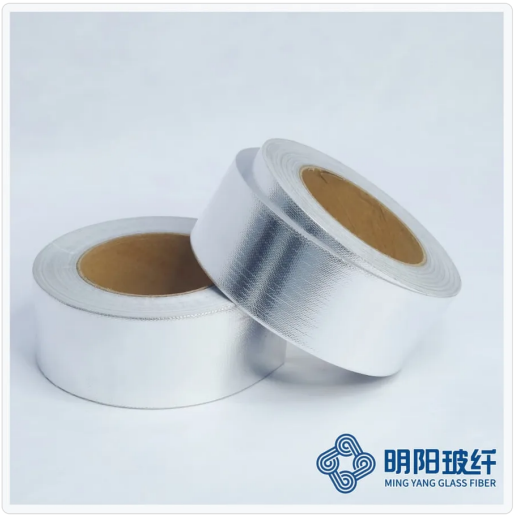
Micro-perforations allow water vapor to pass while foil reflects heat. Prevents condensation in walls, roofs, and HVAC ducts. Higher open area = more breathability but less reflection — we adjust to your balance.

Section 07

Industrial Fiberglass Tapes

Aluminum foil + fiberglass cloth + pressure-sensitive adhesive. Self-adhesive solutions for sealing, insulation, and high-temperature wrapping.

Model	Structure	Adhesive	Weight	Thickness	Width	FR
ZA6110Y	7μm foil + 90g cloth + 45g adhesive	Solvent acrylic	240 g/m²	0.23 mm	4.8cm–1.2m	—
ZA6110S	7μm foil + 90g cloth + 45g adhesive	Water-based acrylic	240 g/m²	0.23 mm	4.8cm–1.2m	—
ZA6130Y	7μm foil + 110g cloth + 45g adhesive	FR solvent acrylic	285 g/m²	0.28 mm	4.8cm–1.2m	✓
ZA6140Y	7μm foil + 115g cloth + 45g adhesive	FR solvent acrylic	240 g/m²	0.26 mm	4.8cm–1.2m	✓



Adhesive Guide

Solvent (Y): highest bond. Water-based (S): low VOC. FR: fire safety cert.

Applications

HVAC sealing · pipe joints · transformer coils · automotive wire harness · anti-corrosion wrapping.

All models: -40°C to +260°C (no delamination), release liner, MOQ 1,000 m², lead 3–15 days. Custom slitting from 6 mm.

Fiberglass Insulation Tape — Adhesive-Free

Model	Type	Thickness	Width	Weight	Tensile
FG13	Alkali-free E-glass	0.13 mm	50 mm	160 g/m²	≥1,960 N/25mm
ET series	Alkali-free E-glass	0.11–0.5 mm	15–150 mm	120–450 g/m²	294–5,400 N
CT series	Medium-alkali C-glass	0.2–0.5 mm	20–150 mm	210–450 g/m²	720–5,400 N

Why Adhesive-Free?

No residue, no outgassing — the traditional choice for thermal & electrical insulation where adhesive tapes fall short.

Applications

Pipe insulation · transformer coils · cable bundling · exhaust wrapping · furnace sealing.

Up to 550°C continuous · A1 non-combustible · oxygen index ≥ 55 · core 14/58/76/83 mm · 30 m/roll (10–100 m custom) · MOQ 1,000 rolls · custom widths & lengths.

Section 08

Base Fabrics

E-glass woven fabric — the foundation of every product we make. Available as standalone rolls for customers who do their own laminating, coating, or composite fabrication.

These are our commonly used grades. We can select or custom-weave different specifications based on your application requirements.

Code	Weight	Thickness	Density (warp×weft)	Yarn	Weave	Width	Temp
2116	105 ± 3 g/m²	0.10 ± 0.012 mm	24±1 × 23±1 / cm	E225 × E225	Plain	1,050–1,270 mm	550°C
3732	430 g/m²	0.43 mm	—	—	Twill, heat-treated	1.0–2.0 m	550°C
7628	200 ± 10 g/m²	0.18 ± 0.01 mm	17±1 × 13±1 / cm	ECG75 1/0 × ECG75 1/0	Plain	1,050–1,270 mm	550°C

Section 09

Ordering Information

Quick Reference

Standard MOQ	1,000 m² (fabrics) / 1,000 rolls (tapes)
Custom MOQ	5,000 m²
Samples	Free — shipped within 3 days for evaluation
Lead Time (Standard)	3–15 days
Lead Time (Custom)	15–25 days
Packaging	Kraft paper or PE bag + palletized export cartons
Payment	Flexible — based on order volume. Please inquire.

Certifications

Standard	Scope	Products
ISO 9001:2015	Quality management	All
SGS Audited	Factory audit	All
TÜV Rheinland	Product safety	Aluminum foil fabrics
UL Recognized	Component recognition	Silicone fabrics, select tapes
RoHS	Hazardous substances	Aluminum foil & silicone fabrics
CE	European conformity	Silicone coated fabrics

Every shipment includes batch-specific Certificate of Analysis (COA). Third-party testing to ASTM, EN, SOLAS available on request.

Contact

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Tell us your application, operating temperature, environment, dimensions, and any special requirements. Our engineers will respond with a specific recommendation — from our standard platforms or a custom configuration.