

TECHNICAL DATA SHEET (TDS)

RUISHUN Aluminum Foil Fiberglass Fabric Tape

1. Product Description

RUISHUN Aluminum Foil Fiberglass Fabric Tape is a high-performance industrial insulation tape manufactured by laminating woven fiberglass fabric with aluminum foil and coating with high-temperature pressure-sensitive adhesive. It is designed for heat reflection, thermal insulation, fire resistance, and sealing applications in demanding industrial environments.

2. Construction

Backing Material: Woven Fiberglass Fabric

Facing Layer: Aluminum Foil

Adhesive: High-temperature Acrylic or Silicone (optional)

Release Liner: Silicone-coated paper (if applicable)

3. Typical Physical Properties

Fiberglass Fabric Thickness: 0.13 – 0.25 mm

Aluminum Foil Thickness: 18 – 25 μm

Total Tape Thickness: 0.18 – 0.35 mm

Tensile Strength: ≥ 150 N/25 mm

Adhesion to Steel: ≥ 18 N/25 mm

Elongation at Break: $\leq 5\%$

Flame Resistance: Non-combustible backing

Moisture Resistance: Excellent

Note: Values shown are typical and not intended for specification limits.

4. Temperature Performance

Continuous Operating Temperature: Up to 260°C

Short-Term Temperature Resistance: Up to 300°C

Radiant Heat Reflection: Up to 90%

5. Standard Dimensions

Widths: 25 / 50 / 75 / 100 mm

Lengths: 20 m / 30 m / 50 m

Core Inner Diameter: 76 mm (3")

Color: Silver

6. Application Instructions

- 1) Ensure surface is clean, dry, and free of oil or dust.
- 2) Cut tape to required length.
- 3) Apply with firm pressure to ensure full adhesive contact.
- 4) Avoid stretching tape during application.

7. Typical Applications

HVAC duct sealing and insulation joints

Thermal insulation systems for pipes and equipment

Automotive engine and exhaust heat shielding

Fire-resistant cable and wire wrapping

Industrial hot-work and welding protection

8. Storage & Shelf Life

Storage Conditions: Cool, dry place away from direct sunlight

Recommended Storage Temperature: 10°C – 30°C

Shelf Life: 12 months from date of manufacture

9. Safety & Compliance

Asbestos-free

Non-toxic under normal conditions of use

MSDS available upon request

10. Notes

The information provided in this Technical Data Sheet is based on laboratory testing and practical experience. Performance may vary depending on application conditions. Users should evaluate suitability for their specific application.

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