



BASALT FIBER FIREPROOF FABRIC

TECHNICAL SPECIFICATIONS & ENGINEERING DATA

MATERIAL COMPOSITION



100% BASALT FIBER

- Natural volcanic basalt
- High temperature melting
- Excellent chemical stability
- Sustainable & eco-friendly

VOLCANIC BASALT FIBER STRUCTURE

Basalt fiber is extracted from natural volcanic rock, melted at high temperature and extruded into continuous fibers, then woven into high performance fabric.

FABRIC WEAVE STRUCTURE



PLAIN WEAVE

- Tight and uniform weave
- High strength yarns
- Excellent stability
- Smooth surface



KEY FEATURES



HIGH TEMPERATURE RESISTANCE

Continuous use up to 700°C, peak up to 900°C



FIRE RESISTANT

Non-combustible, excellent flame resistance and low smoke.



HIGH STRENGTH

High tensile strength, tear resistance and dimensional stability.



CHEMICAL RESISTANCE

Resistant to acids, alkalis, oils, solvents and most chemicals.



ABRASION RESISTANCE

Excellent wear resistance for long-term industrial use.



LIGHTWEIGHT & FLEXIBLE

Easy to cut, shape and install for complex applications.

TECHNICAL SPECIFICATIONS

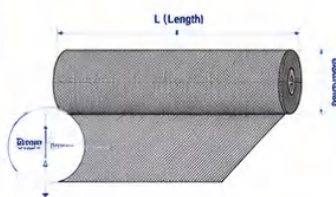
THICKNESS OPTIONS		FABRIC WEIGHT		TENSILE STRENGTH		THERMAL CONDUCTIVITY	OPERATING TEMPERATURE		FLAME RESISTANCE	CHEMICAL RESISTANCE
mm	inch	g/m ²	oz/yd ²	Warp (N/5cm)	Weft (N/5cm)	W/m·K (at 400°C)	Continuous	Peak		
0.3	0.012"	300	8.8	≥ 1500	≥ 1200	≤ 0.045	 700°C	900°C		
0.5	0.020"	500	14.7	≥ 2000	≥ 1600	≤ 0.045				
0.8	0.031"	800	23.6	≥ 2800	≥ 2200	≤ 0.046				
1.0	0.039"	1000	29.5	≥ 3500	≥ 2800	≤ 0.046				
1.5	0.059"	1200	35.3	≥ 4500	≥ 3500	≤ 0.047				
2.0	0.079"	1600	47.1	≥ 5500	≥ 4500	≤ 0.047				
3.0	0.118"	2000	58.9	≥ 6500	≥ 5500	≤ 0.048				
									Non-combustible (A1 Grade) According to EN 13501-1	Excellent resistance to acids, alkalis, oils, solvents and most chemicals.

ROLL SPECIFICATIONS

Standard Width	1000 mm / 1200 mm
Max Width	2000 mm
Roll Length	30 m / 50 m / 100 m
Core Diameter	76 mm (3 inch)
Color	Dark Brown
Weave Type	Plain Weave
Edge	Cut Edge / Stitched Edge



DIMENSIONAL DRAWING



TYPICAL APPLICATIONS



PHYSICAL PROPERTIES

Property	Test Method	Unit	Typical Value
Density	ISO 1889	g/cm ³	2.6 ± 0.2
Moisture Content	ISO 3344	%	≤ 0.5
Loss on Ignition	ISO 1887	%	≤ 2.0
Ash Content	ISO 1887	%	≥ 98.0
pH Value	ISO 3071	-	8.0 - 10.0
Electrical Resistivity	ASTM D257	Ω·cm	≥ 1.0 × 10 ⁹

QUALITY STANDARDS

- EN 13501-1 (Fire Classification: A1)
- ISO 9001:2015 Quality Management System
- RoHS Compliant
- REACH Compliant
- Custom sizes and weights available upon request.



STORAGE & HANDLING

- Store in dry and clean environment
- Keep away from moisture and direct sunlight
- No expiration date under proper storage
- Easy to cut with scissors or industrial cutters
- Wear gloves and protective equipment during installation

