



TECHNICAL DATA

Product name: GJN-BR Nanopore Composite Insulation Felt

Current version: 1.0.0, **issued:** 26.04.2023 **Replaced version:** -, **issued:** -

Product description

Brief description

GJN-BR Nanopore Composite Insulation Felt is a flexible thermal insulation felt made of silica aerogel and special fibers through a nanocomposite process. The material has the characteristics of low thermal conductivity, excellent hydrophobicity, environmental protection, non-toxicity, class A non-combustibility, and easy construction. The thickness is 35% thicker than aerogel felt, making it faster and easier to install this insulation.

Colour

White/Gray

Product features

- (1) The initial input is lower than that of aerogel felt.
- (2) The thermal conductivity is low, the thermal insulation performance is superior, and the heat loss is effectively reduced.
- (3) Thin thickness, good flexibility, effectively improve space utilization.
- (4) Excellent fireproof and hydrophobic properties, long service life, and effective material cost savings.
- (5) It is easy to cut, and the construction is simple and convenient, which effectively saves the construction cost.
- (6) Safe and environmentally friendly, waterproof and breathable, and greatly avoid corrosion under the insulation layer (CUI).

Applications

- (1) Insulation core layers such as incubators or insulation bags.
- (2) Pipelines of thermal power plants, petrochemical plants, chemical plants and steam pipeline.
- (3) Body insulation of high-speed trains, subways, etc. subways, etc.
- (4) Fire and heat insulation for buildings and new energy vehicles.

Technical parameters

Product Model	GJN Nanopore Composite Insulation Felt		Test standard
	GJN-BR400	GJN-BR700	
Thickness	5mm, 10mm, 15mm		
Width	1500 ± 2 mm		
Color	White, grey		
Package	Roll, sheet		
Thermal Conductivity	≤0.03 W/ (m·k) at 25°C		GB/T 10294
	≤0.05 W/ (m·k) at 200°C		
	≤0.06 W/ (m·k) at 300°C		
Maximum operating temperature	400°C	700°C	GB/T 17430
Density	150±10 kg/m ³		GB/T 17911
Vibration Mass Loss Rate	≤0.3%		GB/T 34336
Tensile strength	≥70 kPa		GB/T 17911
Compression rebound rate	≥85%		GB/T 13480
Hydrophobicity	≥98%		GB/T 0299
Combustion class	Class A		GB/T 8624
Chloride	≤25 ppm		JG/T 618
Fluoride	≤25 ppm		JG/T 618

Precautions

Safety protection specification:

Dust will inevitably appear during the transportation and construction of materials. It is recommended to install exhaust equipment in places where dust is likely to be generated. Construction workers wear protective equipment such as dust masks, gloves, and throughout goggles the process to avoid direct contact with the product.

Transportation and storage:

The means of transport should be dry and rain-proof, and should be handled with care to avoid heavy pressure during handling and transportation. It should be stored in a dry, ventilated, rain-proof, away from fire source, heat source and chemical solvent conditions, and should be stacked according to varieties and specifications to avoid heavy pressure.

Construction and installation:

For industrial applications, it is recommended to refer to the construction instruction manual.

Note: The product technical information and relevant data mentioned in the above data are the experimental test values of the manufacturer, which are only for reference, not as legal interpretation and guarantee. Please use them after testing and confirmation according to the working conditions required by your company before use.