Insulation 1

TECHNICAL DATA

Product name: Aerogel Composite Noncombustible Insulation Board AG-BRP2

Current version: 1.0.0, issued: 15.05.2023 **Replaced version: -, issued: -**

Product description

Brief description The Aerogel Composite Noncombustible Insulation Board AG-BRP2 is a non-combustible insulation board made by adding silica aerogel powder and other fillers to a small amount of polystyrene particles and pressing them together with inorganic materials.

Product features

(1) A-class fire resistance: The fire resistance level can reach A-class, providing excellent flame-retardant effects.

(2) Excellent thermal insulation performance: It outperforms traditional rock wool in terms of thermal insulation.

(3) Low moisture absorption rate: The closed-cell structure has low water absorption, ensuring stable performance.

(4) Convenient installation: The product is easy to install, shortening construction time and improving efficiency.

(5) Environmentally friendly: The product is made of inorganic materials and does not contain harmful substances to humans, ensuring safety and reliability.

Applications Suitable for building wall insulation and roof insulation.

Technical parameters

Product dimensions	Unit	Value
Length	m	2.44
Width	m	1.22
Thickness	cm	2/3/5/7.5/10

The above dimensions are maximum values, and the product can be cut and customized according to specific requirements.

Testing parameters		Unit	Performance indicators
Dimensional tolerances allowed	Length	mm	+1
	Width	mm	-1
	Thickness	mm	+0.8
Thermal Conductivity at 25℃		W/（m·k)	≤0.045
Surface flatness deviation		mm	0.3
Apparent density		kg/m^3	140, ± 10%
Compressive strength		MPa	0.19
Tensile strength perpendicular to the plane of the board		MPa	0.14
Flexural strength		MPa	0.26
Volume water absorption rate		%	6
Combustion performance		--	A2
Softening coefficient		--	0.8
Dry shrinkage rate		%	0.5

Precautions

Safety precautions: Aerogel products are environmentally friendly, safe, and harmless. However, during transportation and construction, dust may be generated. It is recommended to install exhaust equipment in areas prone to dust. Construction personnel should wear dust masks, gloves, goggles, and other protective equipment throughout the process to avoid direct contact with the skin and eyes.

Transportation and storage: Transportation vehicles should have measures in place to keep the product dry and protected from rain. During handling and transportation, the products should be handled with care and not subjected to heavy pressure. Storage should be conducted in dry, well-ventilated areas that are protected from rain and kept away from heat sources, open flames, and chemical solvents. Different varieties and specifications should be stored separately to avoid excessive pressure.

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.