



TECHNICAL DATA

Product name: Aerogel Multilayer Board AG-BRMF

Current version: 1.0.0, **issued:** 23.05.2023 **Replaced version:** -, **issued:** -

Product description

Brief description

Aerogel Multilayer Board AG-BRMF is made using special fiber filaments as the base material and prepared through innovative nano-composite process. This material has an ultra-low thermal conductivity and is 75% thinner in thickness compared to similar products. It is suitable for use in confined spaces or areas prone to mechanical collisions. It enables faster and easier installation of this Multilayer material, saving time and expenses. It is specifically designed for Multilayer and thermal Multilayer in buildings, equipment and other areas that require a flat, square shape with mechanical strength.

Colour

White

Product features

- (1) Low thermal conductivity, excellent Multilayer and thermal Multilayer performance, effectively reducing heat loss.
- (2) Hydrophobic and breathable, preventing contact with liquid water on the protected surface while allowing the passage of steam.
- (3) Easy to operate, can be easily cut into various shapes to meet different Multilayer requirements, requiring less time and labor for installation.
- (4) Saves transportation costs, as less material and packaging volume significantly reduce logistics costs.

Applications

- (1) Interior and exterior walls of buildings and ceilings.
- (2) Various types of high and low-temperature industrial furnaces.
- (3) Multilayer shells with special requirements.

Technical specifications:

Product Model	AG-BRMF650-S Aerogel Multilayer Board	Standard/Test method
Product Standard	Complies with GB/T 34336-2017 Class S	
Appearance	Board, white color	
Thickness	20mm	
Size	Customizable	
Thermal Conductivity	$\leq 0.017W/(m \cdot k)$ at 25°C	GB/T 10294-2008
Bulk density	$200kg/m^3 \pm 10\%$	GB/T 5480-2008
Hydrophobicity	99.5%	GB/T 10299-2011
Volume water absorption	0.20 (Fully immersed for 25mm, 2 hours)	GB/T 5480-2017
Combustion level	Class A2	GB 8624-2012
Compressive strength	120 kPa at 25% deformation	GB/T 13480-2014
Compression rebound rate	99%	GB/T 34336-2017
Vibration mass loss	$\leq 0.5\%$	
Maximum operating temperature	650°C	GB/T 17430-2015
Linear Shrinkage	$< 1\%$ at 650°C	GB/T 17911-2018
Service life	> 20 years	

Product Model	AG- BRMF650-A Aerogel Multilayer Board	Standard/Test method
Product Standard	Complies with GB/T 34336-2017 Class A	
Appearance	Board, white color	
Thickness	10mm-80mm, other custom thicknesses available	
Size	Customizable	
Thermal Conductivity	$\leq 0.021W/(m \cdot k)$ at 25°C	GB/T 10294-2008
Bulk density	$200kg/m^3 \pm 15\%$	GB/T 5480-2008
Hydrophobicity	99.5%	GB/T 10299-2011
Volume water absorption	0.20 (Fully immersed for 25mm, 2 hours)	GB/T 5480-2017
Combustion level	Class A2	GB 8624-2012
Compressive strength	120 kPa at 25% deformation	GB/T 13480-2014
Compression rebound rate	99%	GB/T 34336-2017
Vibration mass loss	$\leq 0.5\%$	

Maximum operating temperature	650°C	GB/T 17430-2015
Linear Shrinkage	< 1% at 650°C	GB/T 17911-2018
Service life	> 20 years	

Precautions

Safety protection specification:

During transportation and construction, dust may inevitably occur. It is recommended to install ventilation equipment in areas prone to dust generation. 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:

The transportation vehicle should have measures to prevent moisture and rain. During handling and transportation, the material should be handled with care to avoid heavy pressure. It should be stored in a dry, ventilated, rainproof area, away from fire sources, heat sources, and chemical solvents. Store and stack the materials separately according to their types and specifications to avoid heavy pressure.

Construction and installation:

For industrial applications, it is recommended to refer to the Aerogel Construction Guide. For more information and support, please contact the Aerogel Technical Service Team.

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.