

HEY-AG-F Aerogel Insulation Mat

➤ Product Introduction:

HEY-AG-F[®] Aerogel insulation blanket delivers optimal cooling performance and energy-saving economic value at temperatures as low as -190°C. This product is a flexible insulation blanket created by combining nano-silica aerogel with inorganic materials through advanced nanocomposite technology. Featuring an ultra-low thermal conductivity coefficient and a thickness 75% thinner than comparable products, it enables faster and easier installation-saving both time and costs. It is the ideal choice for deep-cold applications where customers seek superior insulation performance and reduced energy consumption.

➤ Product Characteristics:

- (1) Exceptional thermal insulation performance.
- (2) Superior fire resistance and water repellency.
- (3) Easy to cut and install.
- (4) Safe, environmentally friendly, and non-toxic.
- (5) Long service life with energy-saving cost control.
- (6) Free of chlorine ions, significantly preventing corrosion under insulation (CUI).



➤ Product Applications:

The product significantly reduces cold loss and BOG (boil-off gas) losses, suitable for cryogenic equipment or pipelines, medium-to-low temperature pipelines, air coolers/coil systems,

temperature control systems, etc., such as LNG storage and transportation, liquid nitrogen and liquid oxygen storage and transportation equipment, or transport pipelines.



➤ **Technical Parameters:**

Inspection Items		Results
Thickness	mm	6/10
Fabric Width	mm	1500
Appearance	/	in rolls
Thermal Conductivity W/ (m • K)	-159°C	0.0125
	-81°C	0.0132
	-65°C	0.0135
	-27°C	0.014
	0°C	0.0146
	+10°C	0.015
Operating Temperature Range	°C	-200~125
Density	kg/m ³	160~240
Hydrophobicity	%	≥98
Aluminum foil bonding can be applied per customer requirements to prevent moisture penetration. Materials are cut to specified dimensions as requested, and application consulting along with construction process guidance is provided based on the customer's operational conditions.		

➤ **Precautions:**

Safety Protection Specifications: Dust generation is unavoidable during material transportation and construction use. It is recommended to install exhaust ventilation equipment in areas prone to dust generation. Construction personnel must wear protective equipment such as dust masks, gloves, and safety goggles throughout the process to avoid direct contact with skin and eyes.

Construction and Installation: For industrial applications, refer to the Construction Guide Manual. For further information and support, contact the Engineering Services Department of the Technical Division.

Transportation and Storage: Transportation vehicles must be equipped with dry, rainproof measures. Handle materials gently during loading, unloading, and transport to prevent crushing. Store in a dry, well-ventilated, rainproof location away from fire sources, heat sources, and chemical solvents. Stack materials separately by type and specification to avoid crushing.

***Note:** The product technical information and related data described above are test values obtained from our company's experiments. They are for reference only and do not constitute legal interpretations or guarantees. Before use, please test and confirm according to your company's required working conditions.*