



# HT650 AEROGEL BLANKET

## Flexible Aerogel Blanket for High-Temp Insulation Applications

Suitable for high temperature applications, HT650 Series is a series of flexible and highly efficient insulation blankets in which silica aerogel is composite with fibers, Perfect for the insulation in pipes, tanks, vessels and other applications, HT650 Series is the ideal option for those in need of better insulation performance and lower energy consumption.

Aerogel is the lowest thermal conductive of any present-recognized solid, with this super nano-granule, HT650 Series is a flexible, environmental-friendly, easy-handled insulation material which makes it the leading product in the industry.



### Application advantages:

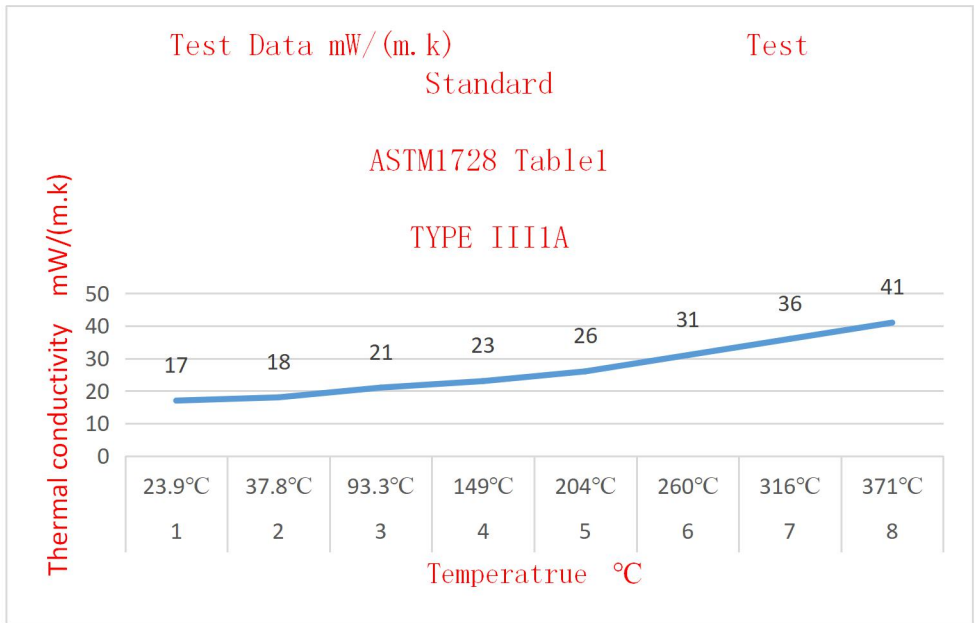
- ✧ Superior Insulation Performance  
2~5 times better than traditional insulation products with longer service life
- ✧ Reduced Insulation Thickness  
For the same insulation performance, just take a portion of thickness of traditional material
- ✧ Hydrophobicity and Fire-proof  
Repel water from penetrating into pipes, equipments, A1 rating of fire-proof
- ✧ Easy Handling  
Lightweight, easily cut and sewn to fit for different shapes of pipes and equipments, Less and labor for installation
- ✧ Transportation Costs Savings  
Lower packing volume and lower weight can greatly cut down logistics costs

### Performance:

Model	HT650		
Thickness	5mm, 10mm as your request		
Width	1500mm		
Hydrophobic	Yes		
Use of temperature	650 °C		
Density	220kg/m <sup>3</sup> ± 20%		
25 °C Thermal Conductivity W/ (m · K)	≤0.019	≤0.021	≤0.023

### Applicable areas:

Prefabricated pipe with insulation  
Tanks, vessels and other equipment  
Steam pipelines in petroleum production, Pipelines in thermal power plants, petrochemical plants and chemical plants, Medium and high temperature industrial furnaces and removable escape capsules, Automobile, high-speed train, and subway, Building and constructions



Item	Temperature	Test Data mW/(m.k)	Test standard
1	23.9°C	17	ASTMC1728 TABLE1 TYPE III1A
2	37.8°C	18	
3	93.3°C	21	
4	149°C	23	
5	204°C	26	
6	260°C	31	
7	316°C	36	
8	371°C	41	
Note	The data is the test result, our goods is produced strictly according the ASTM Sthandard.		



## Product Performance Data

Test Procedure	Property
ASTM C 1728, Type III, Grade 1A	Standard Specification for Flexible Aerogel Insulation
ASTM C165	10% Compressive Strength
ASTM C 356-17	Linear Shrinkage Under Soaking Heat
ASTM C 411	Hot Surface Performance
ASTM C 447	Estimation of Maximum Use Temperature
ASTM C 795-08	Insulation for Use Over Austenitic Stainless Steel
ASTM C1101/C1101M	Classifying the Flexibility of Mineral Fiber Blankets
ASTM C1104/C1104M -13a	Water Vapor Sorption $\leq 5\%$ by weight
ASTM C1338 -2014	Fungal Resistance of Insulation Materials
ASTM C1617-15	Corrosion to steel (mass loss corrosion rate)
ASTM C1728-13	Combustion performance
ASTM C177-13 and C1728-17	Thermal conductivity (average temperature)
ASTM C167 or C303	Thickness and density
ASTM C871-11	Soluble chloride ion content
ASTM C411-17	Anti-sag (Thickness shrinkage, 650°C, 96h)
ASTM C1763	Water absorption rate during immersion
ASTM ISO15665	Sound insulation of pipes, valves and flanges

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