

# SNTS-200

## Nano Aerogel Cold Blankets

### OVERVIEW:

SNTS-200 series nano aerogel cold insulation felt is a flexible, high-efficiency thermal insulation felt. The material is made by combining nano aerogels with special fibers. It is specially used for liquid nitrogen, LNG and other industrial pipelines, tanks and other equipment to keep cold and insulation. It is an ideal choice for customers to pursue better low-temperature cold insulation effect and lower energy consumption.

### APPLICATIONS:

This series of products can withstand low temperature of  $-200^{\circ}\text{C}$  for a long time, and are mainly used in liquid nitrogen, cryogenic storage and transportation pipeline equipment, LNG pipelines and storage tanks for cold insulation and thermal insulation, all kinds of cold storage and transportation carriers, all kinds of low temperature equipment, etc.



### Product Features:

1. Achieve the same thermal insulation effect, only a fraction of the thickness of traditional materials, and the thermal conductivity is as low as 0.017 W/(m•K).
2. At low temperature, it can maintain good flexibility, no fragmentation, and resist the internal stress caused by pipeline expansion.
3. It is easy to construct and easy to cut to adapt to various shapes of pipes and equipment insulation.
4. The material is water-repellent as a whole, which can effectively prevent the corrosion caused by liquid water contacting the surface of pipes and equipment.
5. Smaller parcel volumes and lower weight significantly reduce the cost of transporting insulation.

**Specifications:** Width: 1.5m    Density: 160±20% kg/m<sup>3</sup>    Thickness: 5mm/10mm    Film/no film

### Thickness Recommendation Table:

SNTS-200 series aerogel mat thickness recommendation table											
Nominal straight diameter (mm)	Outside the pipe diameter (mm)	Pipe surface temperature ( °C )									
		-200	-160	-130	-100	-70	-50	-30	-20	-10	10
		The thickness of the insulation (mm)									
50	57	40	35	30	25	20	20	15	10	10	5
80	89	45	40	35	30	25	20	15	15	10	5
100	108	45	40	35	30	25	20	15	15	10	5
150	159	50	40	40	30	25	20	15	15	10	5
200	219	50	45	40	35	30	20	15	15	10	5
250	273	55	45	40	35	30	25	15	15	10	5
300	325	55	45	40	35	30	25	20	15	10	5
350	377	55	50	45	35	30	25	20	15	10	5
400	426	55	50	45	35	30	25	20	15	10	5
450	478	55	50	45	35	30	25	20	15	10	5
500	529	60	50	45	35	30	25	20	15	10	5
600	630	60	50	45	35	30	25	20	15	10	5
700	730	60	50	45	40	30	25	20	15	15	5
800	930	60	50	45	40	30	25	20	15	15	5
The above data refer to the working conditions: the ambient temperature is 25°C, the wind speed is 0m/s, the humidity is 70%, and the surface is protected from condensation.											

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