

Aerogel Blanket

Description

Silicon dioxide aerogel felt is the lightest solid material because it has the characteristic of nano-porous structure, low density, low permittivity, low thermal conductivity, high specific surface area etc. It shows the unique properties in mechanics, acoustics, thermology, optics.

Its thermal insulation performance is the best at present, the hole size is lower than the mean free paths of air molecules which is usual atmospheric pressure, that is why the air molecules in aerogel is like static, so that avoid the path of its nano-grid structure, the almost "Infinite" gap wall could



Classifications

AEROFELT - 450C
 AEROFELT - 650C

Features

Aerospace
 Military
 Medicine
 Building
 Electronics
 Metallurgy

Applications

Aerospace
 Military
 Medicine
 Building
 Electronics
 Metallurgy

Specifications

3 x 1500 x 34000mm
 6 x 1500 x 34000mm
 10 x 1500 x 25000mm
 Other specification is available according to customer's requirement.

Classification	450C	650C
Classification Temp(°C)	450	650
Continuous Use Temp(°C)	-50 - 450	-50 - 650
Color	White	White
Density(kgs/m ³)	200	220
Water Absorption (%)	0.6	0.6
Fire Rating	A	A
Tensile Strength(Kpa)	1000	1100
Thermal Conductivity (W/m.K,200kgs/m ³)		
25°C	0.020	0.020
200°C	0.025	0.026
300°C	0.034	0.035
400°C	0.045	0.045
450°C	0.050	
500°C		0.053
650°C		0.064