Nanofelt Data Sheet

Nanofelt - Aerogel insulating felt

Description

Nanofelt is an aerogel-based nanotechnology mat with excellent insulating performances.

Aerogel is less dense than glass but heavier than air. It is also able to withstand high temperatures and it is an excellent thermal insulator. The low thermal conductivity, the flexibility, the resistance to compressive strength, the hydrophobicity and the breathability make Nanofelt the best insulating material on the market, with the exception of the vacuum insulation.

Where to place it

Cz panel is highly recommended in the construction field to insulate:

- Exterior walls (behind a false wall - total figure of thickness 3-3.5 cm)

- Interior walls (behind a false wall - total figure of thickness 2.5 cm)

- Terraces floors

- Pedestrian rooves

- Ceiling/garage

In addition, they can be used in many other areas, from domestic fridges and freezers to refrigerated transport.

Advantages

The main advantages are the following:

- its high insulating performances
- its low energy costs
- its flexibility
- Easy to cut
- Its fire resistance
- its thermal performance are 3 times longer over the time than traditional insulation products

- it can be placed also on those buildings that must follow some restrictions related to the landscape they are located in, their history or to the environment laws of their Country

Technical Data

Thicknesses available **(others on request)**	10 mm
Density	200 (+/- 10%) Kg/m3
Weight	0 Kg/m2
Compressive strength	55 al 10% - 100 al 20% KPa
Thermal Conductivity "λ" 10°	0,018 W/mK
Cold/heat resistance	da -50 a +300°C
Resistance to steam (µ)	13
Fire resistance	classe A
Dimensions Roll panel Strips	1,5 m (altezza) x 20 mt 1000x500 mm 1000x48 mm
Thermal resistance **R**	0,55 m2·K/W (10mm)

Warning: read carefully the installation manual and the data sheet before placing the product.

Roll   Nanofelt strip   Panel

All data and information have been entered with knowledge and conscience. Errors and technical changes are reserved.