

## DAP VIP CORE N

July 2023

### Optimal-performance open-pored glass mineral wool felt



#### DESCRIPTION

**Knauf Insulation DAP VIP CORE N** is a product, manufactured from high-purity glass fibres, specially processed to offer optimal performance in vacuum insulation panels.

High-tech production technologies ensure uniform fiber distribution and close control of products' thickness and density.

Due to the unique, needling non-woven fibre bonding process, the felts do not contain organic binders. With this special production process we are able to produce an open-pored structure material, which enables efficient extraction of air with no outgassing in a vacuum environment.

#### Standard dimensions

- Thickness: 10 - 25 mm (one layer)
- Max roll width: 1,300 mm
- Product dimensions can be cut to VIP sizes.

#### PERFORMANCE

##### Compression after vacuuming below 50% allows final VIP specification

Optimal thermal conductivity  $\lambda \leq 3.0$  mW/mK  
Density approx. 210 - 240 kg/ m<sup>3</sup>

##### Certified quality

Complies with RoHS Directive  
Complies with REACH Regulation  
RAL  
EUCEB

#### BENEFITS

- ✓ Custom-made shapes possible on request
- ✓ No organic binders
- ✓ Easy-to-handle
- ✓ Open-pored structure
- ✓ Delivered as rolls, slabs or cut to final dimension
- ✓ Optimal structure and no outgassing ensure low thermal conductivity and optimal energy efficiency of VIPs

#### APPLICATION

Core material for vacuum insulation panels (VIPs) where optimal thermal performance is required and custom-made shapes are required.

#### STANDARD

**Technical properties of Knauf Insulation DAP VIP CORE N are declared in accordance with EN 14303.**

Knauf Insulation DAP VIP CORE N is manufactured in accordance with ISO 9001 Quality Management Systems, ISO 14001 Environmental Management Systems, ISO 50001 Energy Management Systems and ISO 45001 Occupational Health and Safety Management Systems as certified by TÜV Nord.

#### CERTIFICATES



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## TECHNICAL PROPERTIES

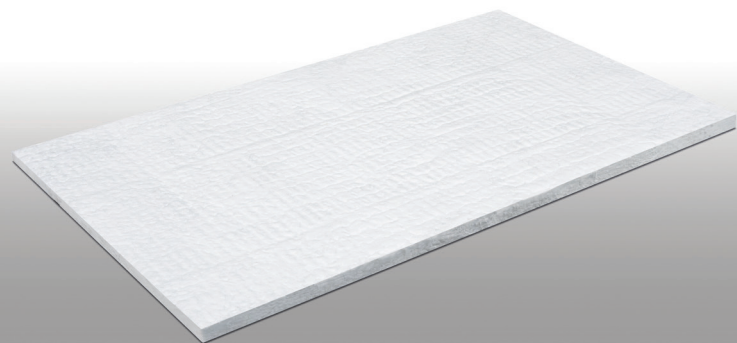
Characteristics	Value	Unit
Color	white	-
Average fiber diameter	4	µm
Core density	210 - 240	kg/m <sup>3</sup>
Core thickness	10 - 25 (one layer)	± 0,2 mm
Size	Customer specified (± 2)	mm
Moisture content	< 0,8	wt%
Loss on ignition	< 0,3	wt%

## HANDLING & STORAGE

Knauf Insulation DAP VIP CORE N is packed on a wooden or plastic pallet. Products are protected with a cardboard and covered with PE foil with PE foil or wrapped twice with stretch foil, which is designed for short-term protection only. It is recommended to store the product either indoors, or under a cover and off the ground, for a maximum of up to 12 months.

If the material becomes damp on location, ensure the moisture evaporates before placing the felts into a manufacturing process.

The performance of DAP VIP CORE N depends on the customer's manufacturing process. Individual customers must optimize and control their manufacturing process to ensure the material meets the requirements of their manufacturing process and their final product.



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