

DAP VIP CORE HP

July 2023

Supreme-performance and easy-to-handle open-pored glass mineral wool board with horizontally-oriented fibres



DESCRIPTION

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

High-tech production technologies ensure uniform fibre distribution and close control of product thickness and density.

Due to the unique, hot press non-woven fibre bonding process, the boards 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 core dimensions:

- Thickness: 5 – 15 mm (one layer)
- Standard board dimension: 2,000 x 1,000 mm
- Product dimensions can be cut to VIP sizes.

PERFORMANCE

VIP specification

Extremely low thermal conductivity $\lambda \leq 1.5 \text{ mW/mK}$
Density approx. 230 - 270 kg/m³

Certified quality

Complies with RoHS Directive
Complies with REACH Regulation
RAL
EUCB

BENEFITS

- ✓ Easy-to-handle
- ✓ Horizontally oriented fibres
- ✓ Allows smooth surface and rectangular edges
- ✓ No organic binders
- ✓ Open-pored structure
- ✓ Delivered as board or cut to final dimension
- ✓ Optimal structure and no outgassing ensure extremely low thermal conductivity and high energy efficiency of VIPs

APPLICATION

Core material for vacuum insulation panels (VIPs) where extremely high thermal performance and a smooth surface with rectangular edges is required.

STANDARD

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

Knauf Insulation DAP VIP CORE HP 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



challenge.
create.
care.

DAP VIP CORE HP

July 2023

TECHNICAL PROPERTIES

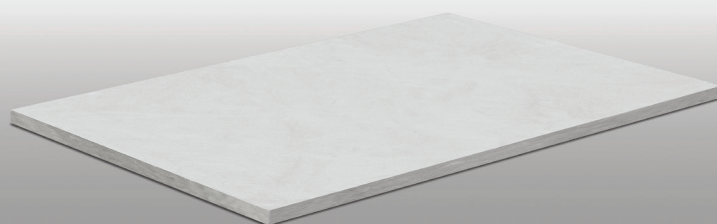
Characteristics	Value	Unit
Color	white	-
Average fiber diameter	4	µm
Core density	230-270	kg/m ³
Core thickness	5 - 15 (one layer)	± 0,2 mm
Size	Customer specified (± 2)	mm
Moisture content	< 0,8	wt%
VIP thickness	~ 0,6 x core thickness	mm

HANDLING & STORAGE

Knauf Insulation DAP VIP CORE HP 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 HP 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.



Knauf Insulation, d.o.o.

Trata 32, 4220 Škofja Loka, Slovenia

Tel: +386 (0)4 5114 100

Fax: +386 (0)4 5114 319

E-mail: oem@knaufinsulation.com

For more info visit:

www.oem.knaufinsulation.com