

va-Q-mic

Product Data Sheet

Characteristics

va-Q-mic is an evacuated thermal insulation panel with extremely low initial thermal conductivity.

The core of va-Q-mic comprises an open cell micro fleece. The qualified and not harmful core material is sealed in a ultra low permeation gas barrier film under vacuum. The barrier film ensures that the va-Q-mic contains low vacuum level for a necessary service time.

In general va-Q-mic is produced rectangular shape and other shapes such as triangle, trapezium, corner cut etc. are available on request.



Applications

va-Q-mic is especially developed for applications, where extremely little space is available. The service life of va-Q-mic depends very much on environmental conditions i.e. applied part of temperature and humidity.

For example va-Q-mic can be used as a single-use thermal transport packaging. Please discuss your application with va-Q-tec AG.



Advantage

- Excellent initial insulation properties
- Extremely low thickness

Product data

Surface color	Silver
Geometry	Rectangular shape
Density	220 kg/m ³
Thermal conductivity	0.0028 to 0.0035 W/(mK)
Temperature stability	-70 °C to +60 °C
Thermal shock resistance	Not sensitive to heat & cold shock in the given temperature range
Humidity stability	0 % to 60 %

Internal gas pressure	< 1 mbar (at delivery)
Maximum dimension (L x W)	1300 mm x 1000 mm
Thickness	14 mm and 20 mm
Size tolerance	
• 0 to 500 mm	± 3 mm
• 501 to 1000 mm	± 5 mm
• 1001 to 1300 mm	± 7 mm
U-value	0.25 W/(m ² K) (at 14 mm thickness)
Mass per area	3.0 kg/m ² (at 14 mm thickness)
Compressive strength	approx. 74 kPa (at 10% compression)
Service life	approx. 5 years (depends on application and climate conditions)

* For 14 mm thickness, if a flat edge is required, the flanges are refolded onto the main surface of panel.

All figures are intended as a guide and should not be used for preparing specifications.

