



#### **DESCRIPTION**

#### **Product description**

Phase change materials, also known as latent heat storage materials, absorb heat during melting and release it again during crystallization/freezing. This allows the required storage temperature to be maintained for the duration of transport. Heat or cold entering the transport container is absorbed by the PCM during the phase transition from solid to liquid and vice versa.

#### **FEATURES**

While the use of water is limited by its melting point of 0°C, the va-Q-accus operate within a standard temperature range of -67°C to +70°C through the use of special paraffines and salts. In addition, there are other customer-specific solutions. In general, the innovative PCM technology allows the use of a universal accu configuration and pack-out for all seasons and climatic zones. Possible areas of application are the temperature control of pharmaceuticals, biotech products, blood preserves, etc.

# Technical product data sheet

va-Q-gel +05G bio (Article number: va-Q-gel +05G bio)



#### **PROPERTIES**

Shell material	PA/PE
Closure	sealed blister
Color	blue
Filling	gelled phase change material
Latent heat	≥ 200
Flash point	≥ +113 °C
Specific heat capacity	0.00 J/(kg*K)
Melting range	+3.0 °C to +7.0 °C
Freezing range	+5.0 °C to +2.0 °C
Physical state	gelled
Application area	+2.0 °C to +8.0 °C
Recommended storage temperature	+15 °C to +25 °C
Temperature resistance	-40 °C to +50 °C

#### **TEST STANDARDS**

Our va-Q-accus are subjected to standardized and customized testing procedures to confirm their unique properties.

### **DIMENSIONS AND WEIGHT**

Designation	Length [mm]	Width [mm]	Thickness [mm]
va-Q-gel 19194 +05G bio	194	194	39
va-Q-gel 22223 +05G bio	219	219	29
va-Q-gel 33242 +05G bio	329	241	19
va-Q-gel 33332 +05G bio	329	329	19

Other temperature battery sizes and filling weights available on request

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#### Legal Disclaimer

The data presented in this technical data sheet are in accordance with the current state of knowledge. The data provided are based on standardized test procedures carried out under laboratory conditions and do not necessarily correspond to the actual properties under real conditions of use. All measured values and properties proposed in this data sheet (e.g., lifetime) were determined under test conditions in the laboratory and therefore represent a non-binding and purely scientific value. The information in the Technical Data Sheet does not constitute any warranty as to the existence of certain properties irrespective of the type of use and no warranty as to the suitability for certain purposes and does not constitute any warranty as to quality or guarantees of properties. Only the applicable statutory or respectively mutually agreed warranty period and warranty rights shall apply. Proposals for usage and applications do not constitute a guarantee, warranty, or representation of suitability for such a specific purpose. The user is responsible for ensuring that the product is suitable and compatible for his own purposes, unless, the suitability for a specific purpose is expressly mutually agreed between the parties. The user shall perform his own tests and experiments regarding the suitability and processing of the product described herein for his individual purposes and applications. We reserve the right to change the product values and features, including but not limited to a change in the current state of knowledge according to section 1. The respective current version of this technical data sheet published on our website applies. Copyright and ownership of the provided data as well as all other copyrightable or protectable contents remain with va-Q-tec. In particular, it is prohibited to copy information from this technical data sheet in whole or in part and to directly or indirectly use it for own commercial purposes, in particular visa-à-vis third parties.

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