

## **Product data sheet:**

### **vakuVIP Industrial**

#### **Description:**

- “High-Performance-Quality” for industrial and logistical applications
- Specially for the industry developed premium foil
- Ultra-high-performance insulation with low density and low coefficient of thermal conductivity
- Specially developed production processes ensure precise and constant thicknesses alongside the whole panel

#### **Advantages:**

- Very low thermal conductivity
- Very low space requirement
- Ecological product
- Long lifecycle
- Very cost-effective

#### **Range of Application:**

- Nitrogen tanks, water reservoir
- Medical technology
- Shippers, thermo boxes, cooling boxes
- Refrigerator, cold chambers
- Automotive industry
- And many other similar applications

Alle Angaben nach bestem Wissen und Gewissen, Irrtümer, techn. Änderungen vorbehalten / Stand 03.07.2017

## Dimensions:

Max. Length*	<b>1200 mm / 47.24 in</b>
Max. Width*	<b>1000 mm / 39.37 in</b>
Thickness*	<b>10 - 60 mm / 3.94 - 2,36 in</b>
*custom dimensions on request	
<b>Tolerances / mm</b>	
Length/Width 150 - 500	+3 / -3
Length/Width 500 - 1000	+3 / -4
Length 1000 - 2000	+5 / -15
Thickness	+1 / -1

*The core consists of more than one part for panels bigger than 1000 x 600 mm.*

## Characteristics:

• Density	200 to max. 250 kg/m <sup>3</sup> according DIN EN 1602 (=12.5 to max 15.6 lb/ft <sup>3</sup> )
• Weight	Approx. 4 kg/m <sup>2</sup> for 20 mm thickness
• Pressure resistance (10% pressure to the core)	Approx. 140 to 180 kpa / 20 to 26 psi
• Heat conductivity (λ-value)	≤0,0045 W/(m*k) during the process of aging, the internal pressure will rise from 1mbar to 5mbar and average temperature of 10°C / 50°F (value measured according to DIN 52612-1 or DIN EN 12667)
• Thermal stability	-70 to +90°C / -94 to +194°F momentary (30 min) up to +120°C / 248°F
• Shelf life	In dry conditions and with temperatures between 5°C - 30°C / 40°F - 86°F almost unlimited
• Form of delivery	Packed in boxes, on pallets
• Safety advice	According to supplier and guideline 91/155/EEC, the core is no hazardous material. It does not release any hazardous decomposition products and is no threat to them human health – current knowledge.
• Longevity	Up to 50 years depending on application

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## Restrictions:

The high-barrier-laminate used for vakuVIP-products shall not be damaged by drilling, cutting, grinding, nailing, milling or bumping on sharp edges. Damaging the laminate will lead to a rapid increase of internal pressure and rapid decrease of the vacuum inside of the panel. The thermal conductivity value will rise to nearly 0,020 W/m<sup>2</sup>K in a non-vacuum-state.