

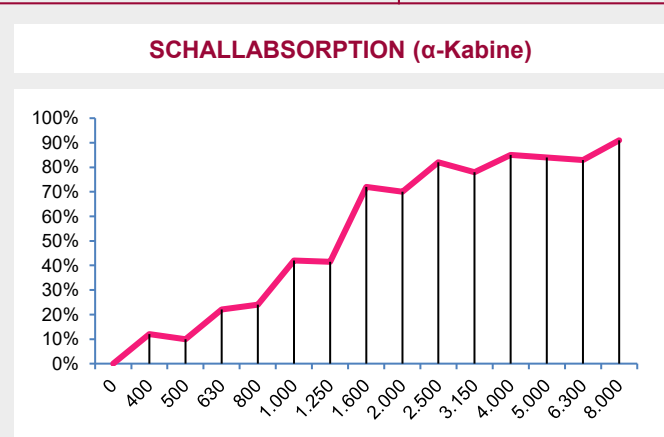
# powermat® S VT

## High-temperature glass needle mat, preheated

### PRODUCT FEATURES

Excellent sound absorption and thermal insulation for use in automotive, marine, and building construction, industrial furnaces, as well as technical insulation and industrial structures operating at high temperatures. Pre-cured to minimize shrinkage.

### TECHNICAL SPECIFICATIONS

<b>Material</b>	textile silica fiber	<b>Specific gravity</b> (Glass) (ASTM D1505)	2,5 g/cm <sup>3</sup>
<b>Transition temperature</b> (DIN ISO 7884-8)	1050 °C		
<b>Filament diameter</b> (ISO 1888)	6 – 11 µm		
<b>Loss on ignition</b> (ISO 1887 T1, 1000 °C, 2 h)	≤ 0,0 – 0,1 %		
<b>Linear shrinkage</b> (1000 °C, 2 h)	ca. 0,7 %		
<b>Flammability</b> (DIN 4102)	non-flammable		
<b>Binder</b>	binder-free		

<b>COMPOSITION</b>	<b>SiO<sub>2</sub></b>	<b>Al<sub>2</sub>O<sub>3</sub></b>	<b>Remaining</b>
<b>by weight - %</b>	≥ 95	≤ 3,5	≤ 2,5

<b>THERMAL CONDUCTIVITY</b> λ (DIN 52612-2)	[°C]	<b>100</b>	<b>200</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>	<b>700</b>	<b>800</b>	<b>900</b>
<b>Density 110 kg/m<sup>3</sup></b>	[W/mK]	0,047	0,061	0,079	0,103	0,133	0,170	0,216	0,271	0,337
<b>Density 130 kg/m<sup>3</sup></b>	[W/mK]	0,053	0,064	0,077	0,092	0,111	0,133	0,160	0,192	0,229
<b>Density 150 kg/m<sup>3</sup></b>	[W/mK]	0,042	0,052	0,065	0,082	0,098	0,119	0,148	0,175	0,190

The maximum operating temperature is 1050 °C.

The information above does not constitute a warranty of performance. Suitability for the intended application must be verified. Subject to change without notice.