

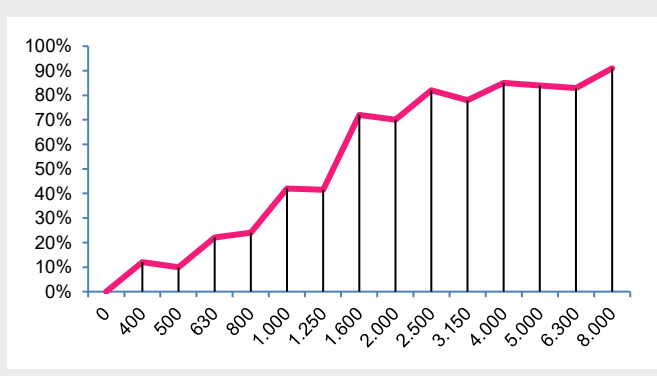
powermat® S

High-temperature glass needle mat

PRODUCT PROPERTIES

Very good acoustic absorption and thermal insulation for use in automotive, marine, building, and industrial furnace applications.

TECHNICAL PROPERTIES

Material	textile silica fiber	Specific density (Glass) (ASTM D1505)	2,5 g/cm ³
Transformation temperature (DIN ISO 7884-8)	1050 °C	<div style="text-align: center;"> SOUND ABSORPTION (α-cabin) </div> 	
Filament diameter (ISO 1888)	6 – 11 μm		
Loss on ignition (ISO 1887 T1, 1000 °C, 2 h)	≤ 9 %		
Linear shrinkage (1000 °C, 2 h)	approx. 7 %		
Flammability (DIN 4102)	non-flammable		
Binder	Binder-free		

COMPOSITION	SiO ₂	Al ₂ O ₃	Other
in wt. - %	≥ 95	≤ 3,5	≤ 2,5

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

The maximum application temperature is 1050 °C.

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