

powermat[®] S

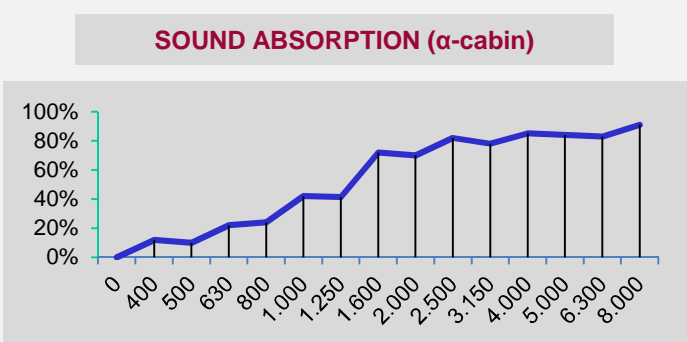
(former known as sinamat)

High temperature glass
needle mat

PRODUCT CHARACTERISTICS

Excellent **acoustic absorption** and **thermal insulation** in the area of the **automotive, ship and building construction, industrial furnaces** as well as **technical insulation and industrial construction** in a **high temperature range**.

TECHNICAL CHARACTERISTICS

Material	textile silica fiber	Specific Density (glass) (ASTM D1505)	2,5 g/cm ³
Transformation temperature (DIN ISO 7884-8)	1050 °C		
Filament diameter (ISO 1888)	6 – 11 µm		
Ignition loss (ISO 1887, 1000 °C, 2 h)	≤ 9 %		
Linear shrinkage (1000 °C, 2 h)	max. 7 %		
Combustibility (DIN 4102)	non combustible		
Binder	binder free		

CHEMICAL COMPOSITON	SiO ₂	Al ₂ O ₃	rest
in weight - %	≥ 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 technical information does not constitute a quality warranty. The suitability for a specific purpose must be examined. Subject to change without notice.



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