

OVERVIEW TECHNICAL DATA

FRATHERNIT[®] HS extra

Product description	Engineered composite material made from special cement and mineral fibres
Standard colour	grey
Main applications	Electrical and thermal insulation parts for machine engineering and process industry
Delivery program	Sheets, panels and highly precise machined parts and finished components

Physical characteristics

Properties	Test Standard	Unit	Typical value
Specific density	ISO 1183	g/cm ³	1,9
Water absorption	ISO 62	%	15 (in water) 2,5 (in 95% humidity)

Thermal characteristics

Properties	Test Standard	Unit	Typical value
Operating temperature, continuous	–	°C	700
Operation temperature, short-term	–	°C	700
Coeff. of linear thermal expansion	DIN 51045	10 ⁻⁶ x K ⁻¹	6
Thermal conductivity	DIN 52612	W/mK	0,4

Mechanical characteristics

Properties	Test Standard	Unit	Typical value
Compressive strength at 23 °C	ISO 604	N/mm ²	110
Flexural strength at 23 °C	ISO 178	N/mm ²	26

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The standard values shown in this data sheet are measured by standard test methods. Depending on operation terms and dimensions the material properties can differ from these values.

Please contact our applications and sales engineers to clarify the suitability of the material for your application.