

OVERVIEW TECHNICAL DATA

FRATHERNIT® AE 3

Product description	Engineered composite material made of resin-bound glass fabric
Standard colour	red-brown
Main applications	Pressure resistant insulation material for tool- and mouldindustry
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	%	0,1

Thermal characteristics

Properties	Test Standard	Unit	Typical value
Operating temperature, continuous	-	°C	250
Operation temperature, short-term	-	°C	260
Coeff. of linear thermal expansion	DIN 51045	10 ⁻⁶ x K ⁻¹	19
Thermal conductivity	-	W/mK	0,21

Mechanical characteristics

Properties	Test Standard	Unit	Typical value
Compressive strength at 23 °C	ISO 604	N/mm ²	570
Compressive strength at 250 °C	ISO 604	N/mm ²	360
Flexural strength at 23 °C	ISO 178	N/mm ²	425
Flexural strength at 250 °C	ISO 178	N/mm ²	287

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The standard values shown in this data sheet are measured by standard test methodes. 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.