

	Value	Unit
Maximum service temperature	1,250	°C
	2,282	°F
Bulk density	1,400	kg/m <sup>3</sup>
	87	lb/ft <sup>3</sup>
Cold crushing strength (EN ISO 8895)	14.0	MPa
	2,030	lb/in <sup>2</sup>
Modulus of rupture (EN 12089)	2.5	MPa
	363	lb/in <sup>2</sup>
Linear reheat shrinkage (EN 1094-6) after 12 hours at 1,150°C (2,102°F)	1.0	%
Total porosity (EN 1094-4)	50	%
Coefficient of reversible thermal expansion at 20°C to 750°C (68°F to 1,382°F)	8.9	×10 <sup>-6</sup> K <sup>-1</sup>
	4.9	×10 <sup>-6</sup> °F <sup>-1</sup>

Thermal conductivity (ASTM C-182)	Mean temperature		
	200°C	0.32	W/(m×K)
	400°C	0.31	W/(m×K)
	600°C	0.31	W/(m×K)
	800°C	0.34	W/(m×K)
	1,000°C	0.37	W/(m×K)
	392°F	2.22	BTU/(ft <sup>2</sup> ×h×°F/in)
	752°F	2.15	BTU/(ft <sup>2</sup> ×h×°F/in)
	1,112°F	2.15	BTU/(ft <sup>2</sup> ×h×°F/in)
	1,472°F	2.36	BTU/(ft <sup>2</sup> ×h×°F/in)
	1,832°F	2.57	BTU/(ft <sup>2</sup> ×h×°F/in)

Chemical analysis			
Silica	SiO <sub>2</sub>	45	%
Titanium dioxide	TiO <sub>2</sub>	0.4	%
Ferric oxide	Fe <sub>2</sub> O <sub>3</sub>	6.9	%
Alumina	Al <sub>2</sub> O <sub>3</sub>	4.3	%
Magnesium oxide	MgO	32.6	%
Calcium oxide	CaO	1.4	%
Sodium oxide	Na <sub>2</sub> O	0.1	%
Potassium oxide	K <sub>2</sub> O	6.1	%
Loss on ignition at 1,025°C (1,877°F)	LOI	2.8	%

Health & safety (material contains no crystalline silica (quartz and/or cristoballite))		
Euroclass fire protection (decision 2000/147/EC) – contains 0% organic matter (<1 w%) – class A		
HS Tariff number (Harmonized Commodity Description and Coding System)	6806.90.00	
Colour	Sand	

Data are average results of tests conducted under standard procedures and are subject to variation. Data contained in this data sheet are supplied in good faith as a technical service and are subject to change without notice. Misprint and errors excepted. Revision number: 7.12.2023

Size	Length	Width	Thickness
Maximum	610mm	305mm	50mm
Minimum	According to your specification	According to your specification	10mm
Standard tolerances*	Up to $\pm 4.0$ mm	Up to $\pm 2.5$ mm	Up to $\pm 1.0$ mm
Machined tolerances*	Up to $\pm 2.5$ mm	Up to $\pm 2.5$ mm	Up to $\pm 1.0$ mm

\*Dimensional tolerances depend on length and width

## General information

Not all size combinations are available for ordering.  
Contact Skamol for the tolerance for a specific size.

## Standard sizes

Check your Skamol price list or contact Skamol with your request.

## Machining

Special shapes machined to customer specification can be supplied for specific design requirements.

## Packaging

Products will be packed according to the Skamol standard.



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