

	Value	Unit
Maximum service temperature	1,250 2,282	°C °F
Bulk density	1,400 87	kg/m ³ lb/ft ³
Cold crushing strength (EN ISO 8895)	14.0 2,030	MPa lb/in ²
Modulus of rupture (EN 12089)	2.5 363	MPa lb/in ²
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 4.9	×10 ⁻⁶ K ⁻¹ ×10 ⁻⁶ °F ⁻¹

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 ² ×h×°F/in)
	752°F	2.15	BTU/(ft ² ×h×°F/in)
	1,112°F	2.15	BTU/(ft ² ×h×°F/in)
	1,472°F	2.36	BTU/(ft ² ×h×°F/in)
	1,832°F	2.57	BTU/(ft ² ×h×°F/in)

Chemical analysis			
Silica	SiO ₂	45	%
Titanium dioxide	TiO ₂	0.4	%
Ferric oxide	Fe ₂ O ₃	6.9	%
Alumina	Al ₂ O ₃	4.3	%
Magnesium oxide	MgO	32.6	%
Calcium oxide	CaO	1.4	%
Sodium oxide	Na ₂ O	0.1	%
Potassium oxide	K ₂ 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	

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Size	Length	Width	Thickness
Maximum	610mm	305mm	50mm
Minimum	According to your specification	According to your specification	10mm
Standard tolerances*	Up to ± 4.0 mm	Up to ± 2.5 mm	Up to ± 1.0 mm
Machined tolerances*	Up to ± 2.5 mm	Up to ± 2.5 mm	Up to ± 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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Skamol by Etex

Hasselager Centervej 1, 8260 Viby, Denmark

Tel.: +45 97 72 15 33

www.skamol.com