SkamoAlu Sical 78

Industry

	Value	Unit
Maximum service temperature	1,580 2,876	°C °F
Bulk density	2,650 165	kg/m³ lb/ft³
Cold crushing strength (DS/EN ISO 8895_2006)	160 23,200	MPa lb/in²
Modulus of rupture (EN 993-6:1995)	44 6,380	MPa lb/in²
Apparent porosity (EN 993-1:1995)	17	%
Linear thermal expansion at 20°C to 1,000°C (68°F to 1,832°F)	4.3 2.4	×10⁻⁶ K⁻¹ ×10⁻⁶ °F⁻¹

Thermal conductivity (ASTM E1461-13)	Mean temperature		
	200°C	29	W/(m×K)
	400°C	25	W/(m×K)
	600°C	23	W/(m×K)
	800°C	21	W/(m×K)
	392°F	201	BTU/(ft²×h×°F/in)
	752°F	173	BTU/(ft²×h×°F/in)
	1,112°F	160	BTU/(ft²×h×°F/in)
	1,472°F	146	BTU/(ft²×h×°F/in)

Chemical analysis			
Silicon carbide	SiC	78	%
Silicon nitride	Si_3N_4	18	%
Silicon	Si	0.5	%
Silica + Silicon oxynitride	SiO_2 + Si_2ON_2	0.5	%
Other oxides	Al_2O_3 + Fe_2O_3 + CaO	0.5	%

HS Tariff number (Harmonized Commodity Description and Coding System)	6902.90.00	
Colour	Grey	

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: 11.1.2021

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skamol

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Size	Length	Width	Thickness
Maximum			
Minimum	According to your specification	According to your specification	
Standard tolerances*			
Machined tolerances*			

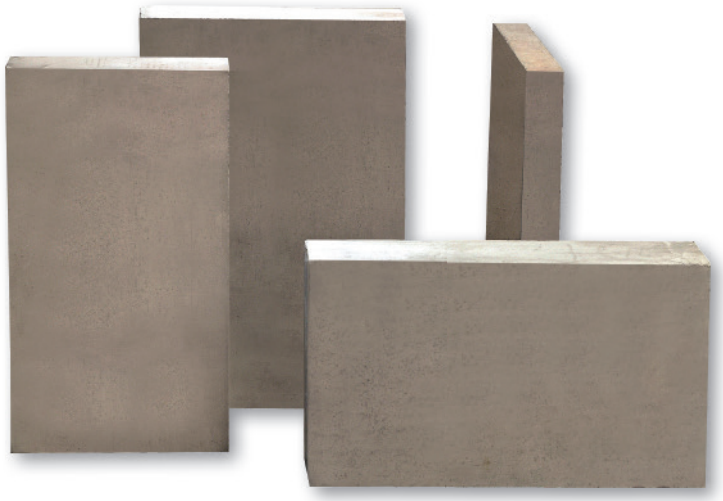
*Dimensional tolerances depend on length and width

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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