

***Kiln furniture for your future***

**ALPHA CERAMICS Aachen**

ALPHA CERAMICS GmbH Jülicher Strasse 334 D-52070 Aachen



alpha ceramics

<b>Chemical Composition</b>	<b>Alphoxit 100</b>	
Al <sub>2</sub> O <sub>3</sub>	99,8	
SiO <sub>2</sub>		
ZrO <sub>2</sub>		
Fe <sub>2</sub> O <sub>3</sub>	0,01	% wt.
TiO <sub>2</sub>		
MgO + CaO		
K <sub>2</sub> O + Na <sub>2</sub> O	0,15	

  

<b>Mechanical Properties</b>		
Apparant density	2650	Kg /m <sup>3</sup>
Open porosity	35	Vol. %
3-pt bending strength (20°C)	17	MPa
Modulus of elasticity		GPa

  

<b>Thermal Properties</b>		
Thermal shock resistance	good	
Maximum working temperature	1580	°C
Expansion coefficient (1400°C)	8	10 <sup>-6</sup> /K

N.B.: Data given in this technical information sheet have been determined as average values on test specimens and should only be used as a guidance

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