

TECHNICAL INFORMATION

Fireclay brick boosted with silicon carbide		
Bulk density [g/cm ³]		2,35
Apparent porosity [%]		19
Cold crushing strength [MPa]		50
Thermal shock resistance [cycles]		> 30
Refractoriness under load, T ₀₅ /T ₅ [°C]		1350/1480
Permanent linear change [%] at	1400 °C/5h	+ 0,6
Linear thermal expansion [%] at	1000 °C	0,5
Thermal conductivity [W/mK] at	500 °C	2,0
	750 °C	2,6
	1000 °C	3,0
	1250 °C	–
Aluminium oxide, Al ₂ O ₃ [%]		50
Titanium dioxide, TiO ₂ [%]		1,4
Silicon dioxide, SiO ₂ [%]		37
Ferric oxide, Fe ₂ O ₃ [%]		1,3
Earth alkalies, CaO + MgO [%]		0,3
Alkalies, K ₂ O + Na ₂ O [%]		1,0
Silicon carbide, SiC [%]		9

Note:

1. Above data are the average values.
2. The values for the physical properties are valid for pressed normal bricks or similar formats.
They are not valid for larger/more complicated formats.
3. Tests are conducted according to DIN standards.
4. The data sheet may be changed without warning.