

TECHNICAL INFORMATION

Andalusite brick boosted with silicon carbide		
Bulk density [g/cm ³]		2,50
Apparent porosity [%]		19
Cold crushing strength [MPa]		50
Thermal shock resistance [cycles]		> 30
Refractoriness under load, T ₀₅ /T ₅ [°C]		1400/1550
Permanent linear change [%] at	1400 °C/5h	+ 1,4
Linear thermal expansion [%] at	1000 °C	0,5
Thermal conductivity [W/mK] at	500 °C	2,8
	750 °C	3,0
	1000 °C	3,5
	1250 °C	–
Aluminium oxide, Al ₂ O ₃ [%]		38
Titanium dioxide, TiO ₂ [%]		0,2
Silicon dioxide, SiO ₂ [%]		34
Ferric oxide, Fe ₂ O ₃ [%]		0,9
Earth alkalies, CaO + MgO [%]		0,3
Alkalies, K ₂ O + Na ₂ O [%]		0,4
Silicon carbide, SiC [%]		26

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.