

SILCAREF 23, 26, 28

SILCAREF insulating bricks are shaped, refractory products with a total porosity of more than 45% and a high thermal resistance. **SILCAREF** insulating bricks are manufactured by the extrusion process, fired at high temperatures and cut into standardised formats. They have a high refractoriness and are resistant to reducing atmospheres. They are suitable for furnaces and thermal installations, especially for continuously operated systems where storage heat plays a subordinate role in the heat balance. The insulating bricks can be used both on the front side and in the back layer and withstand standard mechanical stresses. In the case of corrosive stress, please consult our technical department.

SILCAREF		Unit	23	26	28
Classification temperature		°C	1,260	1,430	1,540
Standard group according to ASTM C155			23	26	28
Bulk density		kg/m ³	600	800	900
Cold compressive strength		MPa	1.2	2.0	2.6
CO resistance		Classification	A	A	A
Permanent linear shrinkage after 24h	1,230 °C	%	- 0.1	-	-
	1,400 °C		-	- 0.5	-
	1,510 °C		-	-	-0.8
Thermal conductivity λ at t_m	400 °C	W/(m K)	0.24	0.27	0.34
	600 °C		0.27	0.29	0.36
	800 °C		0.32	0.32	0.39
	1,000 °C		0.38	0.37	0.42
	1,200 °C		-	-	0.45
Chemical composition					
Al ₂ O ₃		%	45	55	65
SiO ₂			50	42	32
Fe ₂ O ₃			1.0	0.9	0.7
K ₂ O + Na ₂ O			1.1	1.0	0.8
Dimensions					
Standard sizes	NF1	mm	230x114x64		
	NF1-76		230x114x76		
	NF2		250x124x64		
Tolerances		mm	± 1		
Special formats on request		Cuts are only possible from standard formats			

The properties mentioned are typical values obtained according to the listed methods. Product variations have to be taken into account. The data do not represent guaranteed properties and cannot be used for any warranty claim. Data are subject to technical modifications.

