

# Product definition

Insulating Bricks and Slabs

Product  
:

**TR 23-10**

Other names :

Ref-date : 2017-01

Maximum Classified Temperature : **1 300 °C** Mark on the brick \* : TR23-10

Brand code :

Description: good resistance to thermal shock. Excellent resistance to crushing

Properties :	Standards	Units	Average μ	Std. Dev. S	Limits	
					Ti (lower)	Ts (upper)
Classification :	ISO 2245		130			
Classification :	ASTM C155					
Bulk density :	ISO 5016	g/cm <sup>3</sup>	1	0.06		1.15
Cold Crushing Strength : (// to extrusion or perpendicular to pressing direction)	ISO 8895	MPa	17	3	11	
Permanent Linear Change : 12h to 1350°C	ISO 2477	%	-0.8		-1.8	
Chemical analysis :	XRF	%				
	Al <sub>2</sub> O <sub>3</sub>		34		28	
	SiO <sub>2</sub>		53			
	Fe <sub>2</sub> O <sub>3</sub>		3.5			4
	TiO <sub>2</sub>		1.5			
	CaO+MgO		3.5			
	Na <sub>2</sub> O+K <sub>2</sub> O		3			
Thermal Conductivity :	ASTM C182	W/m.K				
(Through 114 mm dimension)						
	200 °C		0.24			0.31
	400 °C		0.26			0.36
	600 °C		0.31			0.41
	800 °C		0.36			0.46
	1 000 °C		0.38			0.51
	1 200 °C					
Reversible Thermal Expansion : (20°C to 1000°C)	NF B40 308	%	0,4			
Pyroscopic Cone Equivalent :	ISO 528	°C	1600			

Dimensional tolerances:	Standard pieces	Non Standard pieces
	Length Width Thickness Squareness	±1.5%, mini ±2mm ±1.5%, mini ±2mm ±1.5%, mini ±2mm 1mm / 100mm

Other Informations :	
Recommended mortar :	Heatset : TC 1400 S or TC 1400 H (S = Dry, H = Ready to use) Airset : TH 1400 S or TH 1400 H (S = Dry, H = Ready to use)
Manufacturing Plant :	LIBOS (F47500)

Physical properties are based on averages of routine quality controls carried out from bricks 230 x 114 x 64 mm or 230 x 114 x 76 mm.

Averages and standard deviations are indicative values, limits (Ti et Ts) are guaranteed values.

\* The marking is not contractual.

Frequency, Sampling, Acceptation Methods are detailed in our C.T.C./Q.P.D. (Document n° 8030).