

Product Definition

Insulating Bricks and Slabs

Product :

TR23-07

Other names : 23-125, HR 125, IR23, RL23-125

Ref-date : 2007-C

Maximum Classified Temperature : **1 300 °C** Mark on the brick * : TR23-07

Brand Code :

Description : Fired kaolinite, Low iron content, good CCS

Properties :	Standards	Units	Average μ	Std. Dev. s	Limits	
					Ti (lower)	Ts (upper)
Classification :	ISO 2245		130 L			
Classification :	ASTM C155		23			
Bulk Density :	ISO 5016	g/cm ³	0.67	0.04		0.75
Cold Crushing Strength : (// to extrusion or perpendicular to pressing direction)	ISO 8895	MPa	2	0.3	1.5	
Permanent Linear Change : 12h at 1300 °C	ISO 2477	%	-0.5		-1.5	
Chemical Analysis :	XRF	%				
	Al ₂ O ₃		36		32	
	SiO ₂		56			
	Fe ₂ O ₃		1.1			1.9
	TiO ₂		0.8			
	CaO+MgO		0.6			
	Na ₂ O+K ₂ O		3.2			4.9
Thermal Conductivity : (Through 114 mm dimension)	ASTM C182	W/m.K				
	200 °C		0.18			0.24
	400 °C		0.20			0.27
	600 °C		0.24			0.29
	800 °C		0.27			0.32
	1 000 °C		0.30			0.35
	1 200 °C					
Reversible Thermal Expansion : (20 °C to 1000 °C)	NF B40 308	%	0.48			
Pyroscopic Cone Equivalent :	ISO 528	°C	1 700			

Dimensional tolerances:	Standard Pieces	Non Standard Pieces
	Length	±0.5%, mini ±1.5mm
Width	±0.5%, mini ±1.5mm	
Thickness	±0.5%, mini ±1.5mm	
Squareness	1mm / 100mm	

Other Informations :	
Recommended Mortar :	Heatset : C 1400 S or C 1400 H (S = Dry, H = Ready to use) Airset : RL 13 S or RL 13 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).