

Product Definition

Insulating Bricks and Slabs

Product :

TR28-09

Other names : 28-155, HR 155, RL28, RI28

Ref-date : 2007-C

Maximum Classified Temperature : **1 550 °C** Mark on the brick * : TR28-09

Brand Code : 8809

Description : Fired refractory brick enriched with alumina

Properties :	Standards	Units	Average μ	Std. Dev. s	Limits	
					Ti (lower)	Ts (upper)
Classification :	ISO 2245		150			
Classification :	ASTM C155		28			
Bulk Density :	ISO 5016	g/cm ³	0.94	0.04		1.05
Cold Crushing Strength : (// to extrusion or perpendicular to pressing direction)	ISO 8895	MPa	3	0.4	2	
Permanent Linear Change : 12h at 1550°C	ISO 2477	%	-1		-2	
Chemical Analysis :	XRF	%				
	Al ₂ O ₃		60		57	
	SiO ₂		37			
	Fe ₂ O ₃		0.8			1.05
	TiO ₂		0.6			0.9
	CaO+MgO		0.4			0.7
	Na ₂ O+K ₂ O		0.9			1.5
Thermal Conductivity : (Through 114 mm dimension)	ASTM C182	W/m.K				
	200 °C		0.32			0.42
	400 °C		0.34			0.44
	600 °C		0.37			0.47
	800 °C		0.40			0.50
	1 000 °C		0.43			0.54
	1 200 °C		0.45			0.56
Reversible Thermal Expansion : (20°C to 1000°C)	NF B40 308	%	0.55			
Pyroscopic Cone Equivalent :	ISO 528	°C	1 750			

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

Other Informations :	
Recommended Mortar :	Heatset : C 1650 S or C 1650 H (S = Dry, H = Ready to use) Airset : RL 75 S or RL 75 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).