

Product Definition

Insulating Bricks and Slabs

Product :

TR25-11

Other names : RL13-11, HR RL13-11, IR10

Ref-date : 2007-C

Maximum Classified Temperature : **1 350 °C** Mark on the brick * : TR25-11

Brand Code : 7405

Description : Brick with high C.C.S and low R.U.L.

Properties :	Standards	Units	Average μ	Std. Dev. s	Limits	
					Ti (lower)	Ts (upper)
Classification :	ISO 2245		135			
Classification :	ASTM C155					
Bulk Density :	ISO 5016	g/cm ³	1.06	0.05		1.18
Cold Crushing Strength : (// to extrusion or perpendicular to pressing direction)	ISO 8895	MPa	9	1.2	6.5	
Permanent Linear Change : 12h at 1350°C	ISO 2477	%	-0.5		-1.8	
Chemical Analysis :	XRF	%				
	Al ₂ O ₃		36		34	
	SiO ₂		57			
	Fe ₂ O ₃		1.3			1.6
	TiO ₂		1			1.5
	CaO+MgO		0.6			1
	Na ₂ O+K ₂ O		4			4.9
Thermal Conductivity : (Through 114 mm dimension)	ASTM C182	W/m.K				
	200 °C		0.28			0.36
	400 °C		0.34			0.43
	600 °C		0.38			0.47
	800 °C		0.42			0.52
	1 000 °C		0.45			0.56
	1 200 °C					
Reversible Thermal Expansion : (20°C to 1000°C)	NF B40 308	%	0.5			
Pyroscopic Cone Equivalent :	ISO 528	°C	1 730			

Dimensional tolerances:	Standard Pieces		Non Standard Pieces
	N : Unmachined, S : Surfaced R : Machined 6 faces	Length Width Thickness Squareness	S: $\pm 2.5\%$, R: $\pm 0.5\%$ mini: $\pm 1.5\text{mm}$ S: $\pm 2.5\%$, R: $\pm 0.5\%$ mini: $\pm 1.5\text{mm}$ S: $\pm 1.5\text{mm}$, R: $\pm 0.5\%$ mini: $\pm 1.5\text{mm}$ 1mm / 100mm

Other Informations :	
Recommanded 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).