

Product Definition

Insulating Bricks and Slabs

Product : **TR25-11PP**

Other names : HR RL13-11PP, RL 13/11 PP

Ref-date : 2007-C

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

Brand Code : 1130

Description : Very good C.C.S. and refractoriness under load

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	
Cold Crushing Strength : (// to extrusion or perpendicular to pressing direction)	ISO 8895	MPa	12	1.2	8	
Permanent Linear Change : 12h at 1100 °C	ISO 2477	%	-0.5		-1	
Chemical Analysis :	XRF	%				
	Al ₂ O ₃		36		30	
	SiO ₂		57			
	Fe ₂ O ₃		1.3			2
	TiO ₂		1			2
	CaO+MgO		0.6			1
	Na ₂ O+K ₂ O		4			5
Thermal Conductivity : (flow perpendicular to the direction of pressing)	ASTM C182	W/m.K				
	200 °C		0.28			0.38
	400 °C		0.34			
	600 °C		0.38			0.51
	800 °C		0.42			
	1 000 °C		0.45			
	1 200 °C					
Reversible Thermal Expansion : (20 °C to 1000 °C)	NF B40 308	%	0.5			
Pyroscopic Cone Equivalent :	ISO 528	°C	1 700			

Dimensional tolerances:	Standard Pieces	Non Standard Pieces
	Length Width Thickness Squareness	±0.5%, mini ±1.0mm ±0.5%, mini ±1.0mm ±0.5%, mini ±1.0mm 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).