

Product Definition

Insulating Bricks and Slabs

Product :

TR32-13

Other names : 32-170, HR 32-170, IR32

Ref-date : 2007-C

Maximum Classified Temperature : **1 700 °C** Mark on the brick * : TR32-13

Brand Code : 8802

Description : Very refractory product with high mullite content.

Properties :	Standards	Units	Average μ	Std. Dev. s	Limits		
					Ti (lower)	Ts (upper)	
Classification :	ISO 2245		170				
Classification :	ASTM C155		32				
Bulk Density :	ISO 5016	g/cm ³	1.3	0.05		1.42	
Cold Crushing Strength : (// to extrusion or perpendicular to pressing direction)	ISO 8895	MPa	7.5	1	5		
Permanent Linear Change : 12h at 1600°C	ISO 2477	%	0.5		-1		
Chemical Analysis :	XRF	%					
			Al ₂ O ₃	75		72	
			SiO ₂	22.5			
			Fe ₂ O ₃	0.4			0.6
			TiO ₂	0.4			0.6
			CaO+MgO Na ₂ O+K ₂ O	0.3 0.4			0.6 0.6
Thermal Conductivity : (Through 114 mm dimension)	ASTM C182	W/m.K					
			200 °C				
			400 °C		0.55		0.68
			600 °C		0.58		0.72
			800 °C		0.60		0.75
			1 000 °C 1 200 °C		0.62 0.66		0.77 0.82
Reversible Thermal Expansion : (20°C to 1000°C)	NF B40 308	%	0.7				
Pyroscopic Cone Equivalent :	ISO 528	°C	1 820				

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 1850 S or C 1850 H (S = Dry, H = Ready to use) Airset : RL 95 S or RL 95 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).