

Product definition

Insulating Bricks and Slabs

Product : **TR 28-13**

Other names : 155PB, HR 155PB

Ref-date : 2008-1

Maximum Classified Temperature : **1 550 °C** Mark on the brick * : TR28-13

Brand code : 1185

Description: Calcined kaolin and alumina

Properties :	Standards	Units	Average μ	Std. Dev. S	Limits	
					Ti (lower)	Ts (upper)
Classification :	ISO 2245		150L			
Classification :	ASTM C155		28			
Bulk density :	ISO 5016	g/cm ³	1.33	0.07		1.5
Cold Crushing Strength : (// to extrusion or perpendicular to pressing direction)	ISO 8895	MPa	15	2	9	
Permanent Linear Change : 12h to 1350°C	ISO 2477	%	-1		-2	
Chemical analysis :	XRF	%				
	Al ₂ O ₃		61		58	
	SiO ₂		36			39
	Fe ₂ O ₃		0.6			0.8
	TiO ₂		0.6			1
	CaO+MgO		0.4			0.8
	Na ₂ O+K ₂ O		1.5			2.2
Thermal Conductivity : (Through 114 mm dimension)	ASTM C182	W/m.K				
	200 °C		0.71			0.89
	400 °C		0.69			0.86
	600 °C		0.69			0.86
	800 °C		0.70			0.87
	1 000 °C		0.72			0.90
	1 200 °C		0.75			0.94
Reversible Thermal Expansion : (20°C to 1000°C)	NF B40 308	%				
Pyroscopic Cone Equivalent :	ISO 528	°C				

Dimensional tolerances:	Standard pieces	Non Standard pieces
	Length	±1.5%, mini ±2mm
Width	±1.5%, mini ±2mm	
Thickness	±1.5%, mini ±2mm	
Squareness	1mm / 100mm	

Other Informations :	Quality for MSA
Recommended mortar :	Heatset : TC 1600 S or TC 1600 H (S = Dry, H = Ready to use) Airset : TH 1600 S or TH 1600 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).