

Product Definition

Insulating Bricks and Slabs

Product : **TR27-08E**

Other names : 26-145E

Ref-date : 2007-C

Maximum Classified Temperature : **1 450 °C** Mark on the brick * : TR27-08E

Brand Code : 1162

Description : High Temperature 26 class, with low density

Properties :	Standards	Units	Average μ	Std. Dev. s	Limits	
					Ti (lower)	Ts (upper)
Classification :	ISO 2245		140 L			
Classification :	ASTM C155		26			
Bulk Density :	ISO 5016	g/cm ³	0.78	0.04		0.9
Cold Crushing Strength : (// to extrusion or perpendicular to pressing direction)	ISO 8895	MPa	2.8	0.5	2	
Permanent Linear Change : 12h at 1400 °C	ISO 2477	%	-0.5			1
Chemical Analysis :	XRF	%				
	Al ₂ O ₃		42			
	SiO ₂		52			
	Fe ₂ O ₃		1.1			
	TiO ₂		0.6			
	CaO+MgO		0.7			
	Na ₂ O+K ₂ O		1.6			
Thermal Conductivity : (Through 114 mm dimension)	ASTM C182	W/m.K				
	200 °C					
	400 °C		0.23			0.31
	600 °C		0.26			0.36
	800 °C		0.28			0.38
	1 000 °C		0.30			0.44
	1 200 °C		0.33			0.50
Reversible Thermal Expansion : (20 °C to 1000 °C)	NF B40 308	%	0.47			
Pyroscopic Cone Equivalent :	ISO 528	°C	1 730			

Dimensional tolerances:	Standard Pieces	Non Standard Pieces
	Length	±1 mm
Width	±1 mm	
Thickness	±1 mm	
Squareness	1mm / 100mm	

Other Informations :	
Recommended Mortar :	Heatset : TC1400 S or TC1400 H (S = Dry, H = Ready to use) Airset : TH1400 S or TH1400 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).