

Product definition

Insulating Bricks and Slabs

Product : **TR140CL**

Other names :

Ref-date : 2013-09

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

Brand code :

Description: Brick made from cordierite-mullite insulation. Very good resistance to thermal shock

Properties :	Standards	Units	Average μ	Std. Dev. s	Limits	
					Ti (lower)	Ts (upper)
Classification :	ISO 2245		140			
Classification :	ASTM C155					
Bulk density :	ISO 5016	g/cm ³	0.95			1.05
Cold Crushing Strength : (// to extrusion or perpendicular to pressing direction)	ISO 8895	MPa	5		4	
Permanent Linear Change : 12h to 1350°C	ISO 2477	%	-0.6			-1.5
Chemical analysis :	XRF	%				
			Al ₂ O ₃	47.5		
			SiO ₂	41.5		
			Fe ₂ O ₃	1.1		
			TiO ₂	0.3		
			CaO+MgO	8.2		
			1.8			
Thermal Conductivity : (Through 114 mm dimension)	ASTM C182	W/m.K				
			200 °C	0.33		0.42
			400 °C	0.35		0.45
			600 °C	0.40		0.48
			800 °C	0.45		0.50
			1 000 °C	0.48		0.58
			1 200 °C	0.50		0.6
Reversible Thermal Expansion : (20°C to 1000°C)	NF B40 308	%	0,30			
Pyroscopic Cone Equivalent :	ISO 528	°C	1 480			

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

Other Informations :	
Recommended mortar :	Heatset : TH 1500 S or TH 1500 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).