

# Product Definition

Insulating Bricks and Slabs

Product :

## TR27-08

Other names : 26-145, HR 145, RL26

Ref-date : 2007-C

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

Brand Code : 8808

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 <sup>3</sup>	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 1450 °C	ISO 2477	%	-0.6		-1.8		
Chemical Analysis :	XRF	%					
			Al <sub>2</sub> O <sub>3</sub>	42		39	
			SiO <sub>2</sub>	52			
			Fe <sub>2</sub> O <sub>3</sub>	1.1			1.4
			TiO <sub>2</sub>	0.6			1.2
			CaO+MgO	0.7			1
	Na <sub>2</sub> O+K <sub>2</sub> O	2.5			3.8		
Thermal Conductivity : (Through 114 mm dimension)	ASTM C182	W/m.K					
			200 °C	0.23		0.33	
			400 °C	0.25		0.35	
			600 °C	0.30		0.40	
			800 °C	0.32		0.42	
			1 000 °C	0.36		0.48	
	1 200 °C	0.39		0.54			
Reversible Thermal Expansion : (20 °C to 1000 °C)	NFB 40308	%	0.47				
Pyroscopic Cone Equivalent :	ISO 528	°C	1 730				

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 1500 S or C 1500 H (S = Dry, H = Ready to use) Airset : RL 40 S or RL 40 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).