

# Product Definition

Insulating Bricks and Slabs

Product :

**TR30-11**

Other names : 30-160, HR 30-160, RI30

Ref-date : 2007-C

Maximum Classified Temperature : **1 600 °C** Mark on the brick \* : TR30-11

Brand Code : 8801

Description : High mullitic cohesion

Properties :	Standards	Units	Average μ	Std. Dev. s	Limits	
					Ti (lower)	Ts (upper)
Classification :	ISO 2245		160			
Classification :	ASTM C155		30			
Bulk Density :	ISO 5016	g/cm <sup>3</sup>	1.07	0.04		1.22
Cold Crushing Strength : (// to extrusion or perpendicular to pressing direction)	ISO 8895	MPa	4	0.5	2.8	
Permanent Linear Change : 12h at 1600°C	ISO 2477	%	0		-1	
Chemical Analysis :	XRF	%				
	Al <sub>2</sub> O <sub>3</sub>		67		65	
	SiO <sub>2</sub>		31			
	Fe <sub>2</sub> O <sub>3</sub>		0.5			0.8
	TiO <sub>2</sub>		0.5			0.9
	CaO+MgO		0.3			0.6
	Na <sub>2</sub> O+K <sub>2</sub> O		0.3			0.7
Thermal Conductivity : (Through 114 mm dimension)	ASTM C182	W/m.K				
	200 °C		0.38			0.48
	400 °C		0.40			0.50
	600 °C		0.42			0.52
	800 °C		0.44			0.55
	1 000 °C		0.49			0.60
	1 200 °C		0.51			0.63
Reversible Thermal Expansion : (20°C to 1000°C)	NF B40 308	%	0.6			
Pyroscopic Cone Equivalent :	ISO 528	°C	1 770			

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 1650 S or C 1650 H (S = Dry, H = Ready to use) Airset : RL 75 S or RL 75 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).