ceram Tellus
Matériaux Réfractaires

"La Briqueterie" rue Beausoleil
47500 Monsempron-Libos France
tél. +33 (0)5 53 71 13 01 fax. +33 (0)5 53 71 22 00
site www.tellus-ceram.com

Product Definition

Insulating Bricks and Slabs

Product : **TR25-09**

Other names : RL13-09,HR RL13-9, HR135-9, IR9

Ref-date : 2007-C
Brand Code : 8855

Maximum Classified Temperature : **1 350 °C** Mark on the brick * : TR25-09

Description : High effeciency brick with low deformation under load.

Properties :		Standards	Units	Average μ	Std. Dev. s	Limits Ti (lower)	Limits Ts (upper)
Classification :		ISO 2245		135			
Classification :		ASTM C155					
Bulk Density :		ISO 5016	g/cm³	0.93	0.05		1.02
Cold Crushing Strength : (// to extrusion or perpendicular to pressing direction)		ISO 8895	MPa	4.5	0.5	3.5	
Permanent Linear Change : 12h at 1350°C		ISO 2477	%	-1		-1.6	
Chemical Analysis :		XRF	%				
	Al2O3			35		33	
	SiO2			59			
	Fe2O3			1.4			1.6
	TiO2			1.3			1.5
	CaO+MgO			0.7			1
	Na2O+K2O			3.2			3.7
Thermal Conductivity : (Through 114 mm dimension)		ASTM C182	W/m.K				
	200 °C			0.23			0.30
	400 °C			0.28			0.35
	600 °C			0.31			0.39
	800 °C			0.36			0.45
	1 000 °C			0.40			0.50
	1 200 °C						
Reversible Thermal Expansion : (20°C to 1000°C)		NF B40 308	%	0.6			
Pyroscopic Cone Equivalent :		ISO 528	°C	1 730			

Dimensionnal tolerances:		Standard Pieces	Non Standard Pieces
N : Unmachined, S : Surfaced R : Machined 6 faces	Length Width Thickness Squareness	R : ±0.5%, mini 1.5mm, S : ±2.5% R : ±0.5%, mini 1.5mm, S : ±2.5% ±0.5%, mini ±1.5mm 1mm / 100mm	According accepted drawings

Other Informations :	
Recommanded Mortar :	Heatset : C 1400 S or C 1400 H (S = Dry, H = Ready to use) Airset : RL 13 S or RL 13 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).