

IFB Refractories SAS

Route de Vendoeuvres
36500 Buzançais
France
Tel : +33 (0)2 54 02 25 15
Fax : +33 (0)2 54 84 13 20
www.ifbgroup.fr



Product Definition

Insulating Bricks & Slabs

Product : **RL11-09**

Other names : **HR RL11-9**

Maximum Classified Temperature : **1150°C**

Mark on the brick : RL11-09

Ref date : 2017-B

Brand Code : 8853

Description : Globular silica and refractory kaolin. Very good resistance under load.

Properties :	Standards	Units	Average μ	Std. Dev. σ	Limits	
					TI (low)	Th (high)
Classification	ISO 2245		115			
	ASTM C155					
Bulk density	ISO 5016	g/cm ³	0,92	0,05		1,01
Cold Crushing Strength (// to extrusion or et 90° to pressing direction)	ISO 8895	Mpa	4,2	0,7	3	
Permanent Linear Change 12h at 1150°C	ISO 2477	%	-0,4		1,5	
Chemical Analysis :	XRF	%				
Al ₂ O ₃			22		18	
SiO ₂			73			
Fe ₂ O ₃			2			2,4
TiO ₂			0,8			1,2
CaO+MgO			0,8			1,2
Na ₂ O+K ₂ O			1,2			1,6
Thermal Conductivity :	ASTM C182	W/m.K				
(through 114mm dimension)	200°C		0,24			0,34
	400°C		0,27			0,37
	600°C		0,28			0,38
	800°C		0,30			0,40
	1000°C		0,32			0,42
	1200°C					
Reversible Thermal Expansion : (20°C to 1000°C)	NF B40 308	%	0,7			
Pyroscopic Cone Equivalent :	ISO 528	°C	1550			

Dimensional tolerances:	Standard Pieces		Non-Standard Pieces
	N : Not machined S : Surfaced R : 6 faces machined	Length Width Thickness Squaring	N : $\pm 2.5\%$, R : $\pm 1.5\text{mm}$ N : $\pm 2.5\%$, R : $\pm 1.5\text{mm}$ N : $\pm 3\text{mm}$, R : $\pm 1.5\text{mm}$ 1mm / 100mm

Other Information :	
Recommended mortar	C 1400S or H C : Heat set S : Dry / Powder
	RL 13S or H RL : Air set H : Ready to Use
Manufacturing Plant	PRF : Bricks only

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 and Th) are guaranteed values.

Tests frequency, sampling, and acceptance values for our products are detailed in our C.T.C/Q.P.D. (Document n°8030)