

IFB Refractories SAS

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Product Definition

Insulating Bricks & Slabs

Product : **RL13-09**

Other names : **HR RL13-9, HR 135-9, IR9**

Maximum Classified Temperature : **1350°C**

Mark on the brick : RL13-09

Ref date : 2017-B

Brand Code : 8855

Description : Very high performance brick, with a low deformation at high temperature.

Properties :	Standards	Units	Average μ	Std. Dev. σ	Limits	
					TI (low)	Th (high)
Classification	ISO 2245		135			
	ASTM C155					
Bulk density	ISO 5016	g/cm ³	0,93	0,05		1,02
Cold Crushing Strength (// to extrusion or et 90° 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	%				
	Al ₂ O ₃		35		33	
	SiO ₂		59			
	Fe ₂ O ₃		1,4			1,6
	TiO ₂		1,3			1,5
	CaO+MgO		0,7			1
	Na ₂ O+K ₂ O		3,2			3,7
Thermal Conductivity :	ASTM C182	W/m.K				
(through 114mm dimension)	200°C		0,23			0,30
	400°C		0,28			0,35
	600°C		0,31			0,39
	800°C		0,36			0,45
	1000°C		0,40			0,50
	1200°C					
Reversible Thermal Expansion : (20°C to 1000°C)	NF B40 308	%	0,6			
Pyroscopic Cone Equivalent :	ISO 528	°C	1730			

Dimensional tolerances:	Standard Pieces		Non-Standard Pieces
	N : Not machined S : Surfaced R : 6 faces machined	Length Width Thickness Squaring	S : $\pm 2.5\%$, R : $\pm 0.5\%$, mini $\pm 1.5\text{mm}$ S : $\pm 2.5\%$, R : $\pm 0.5\%$, mini $\pm 1.5\text{mm}$ $\pm 0.5\%$, mini $\pm 1.5\text{mm}$ 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 and slabs 6 faces machined

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)