

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 : **23-125**

Other names : **HR 125, IR23, RL23-125**

Maximum Classified Temperature : **1250°C**

Mark on the brick : 23-125

Ref date : 2017-B

Brand Code : 8806

Description : Calcined kaolin, Low iron content, Good crushing strength

Properties :	Standards	Units	Average μ	Std. Dev. σ	Limits	
					TI (low)	Th (high)
Classification	ISO 2245		130L			
	ASTM C155		23			
Bulk density	ISO 5016	g/cm ³	0,67	0,04		0,75
Cold Crushing Strength (// to extrusion or et 90° to pressing direction)	ISO 8895	Mpa	2	0,3	1,5	
Permanent Linear Change 12h at 1300°C	ISO 2477	%	-0,5		-1,5	
Chemical Analysis :	XRF	%				
Al ₂ O ₃			36		32	
SiO ₂			56			
Fe ₂ O ₃			1,1			1,9
TiO ₂			0,8			
CaO+MgO			0,6			
Na ₂ O+K ₂ O			3,2			4,9
Thermal Conductivity :	ASTM C182	W/m.K				
(through 114mm dimension)	200°C		0,18			0,24
	400°C		0,20			0,27
	600°C		0,24			0,29
	800°C		0,27			0,32
	1000°C		0,30			0,35
	1200°C					
Reversible Thermal Expansion : (20°C to 1000°C)	NF B40 308	%	0,48			
Pyroscopic Cone Equivalent :	ISO 528	°C	1700			

Dimensional tolerances:	Standard Pieces		Non-Standard Pieces
	Length	±0.5%, mini ±1.5mm	
Width	±0.5%, mini ±1.5mm		
Thickness	±0.5%, mini ±1.5mm		
Squaring	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	

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)