

# IFB Refractories SAS

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## Product Definition

Insulating Bricks & Slabs

Product :

**PS 6**

Other names : **HR PS6**

Maximum Classified Temperature : **1050°C**

Mark on the brick : PS 6

Ref date : 2017-B

Brand Code : 8842

Description : Globular silica brick.

Properties :	Standards	Units	Average $\mu$	Std. Dev. $\sigma$	Limits	
					TI (low)	Th (high)
Classification	ISO 2245		105 L			
	ASTM C155					
Bulk density	ISO 5016	g/cm <sup>3</sup>	0,65	0,04		0,71
Cold Crushing Strength (// to extrusion or et 90° to pressing direction)	ISO 8895	Mpa	1,2	0,25	0,9	
Permanent Linear Change 12h at 1050°C	ISO 2477	%	-0,5		-1,5	
Chemical Analysis :	XRF	%				
Al <sub>2</sub> O <sub>3</sub>			13		8	
SiO <sub>2</sub>			79			
Fe <sub>2</sub> O <sub>3</sub>			3,2			4
TiO <sub>2</sub>			0,4			0,8
CaO+MgO			2,1			2,6
Na <sub>2</sub> O+K <sub>2</sub> O			0,9			1,4
Thermal Conductivity :	ASTM C182	W/m.K				
(through 114mm dimension)						
200°C			0,15			0,23
400°C			0,17			0,25
600°C			0,20			0,28
800°C						
1000°C						
1200°C						
Reversible Thermal Expansion : (20°C to 1000°C)	NF B40 308	%	0,75			
Pyroscopic Cone Equivalent :	ISO 528	°C	1490			

Dimensional tolerances:	Standard Pieces		Non-Standard Pieces
	Length	±2.5%	According to accepted drawings
Width	±2.5%		
Thickness	±3mm		
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 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)