

# PS6(M) – Product data sheet

## Presentation:

PS6 is a globular silica insulation brick. It has been produced for more than half a century with clay from our own local quarry. It is typically used for external layer applications. The brick exists in trimmed and machined versions.



Maximum classified temperature: **1050°**.



Globular silica brick. Local organic filler.

### Machined version \*

Properties :	Standards	Units	Average $\mu$	Limits	
				Tl (low)	Th (high)
Classification	ISO 2245		105 L		
	ASTM C155				
Bulk density	EN 1094-4	g/cm <sup>3</sup>	0,65		0,71
Cold Crushing Strength ( $\perp$ to pressing direction)	ISO 8895	Mpa	2	1,5	
Permanent Linear Change (12h at 1050°C)	ISO 2477	%	-0,5	-1,5	
Chemical Analysis : (XRF)	ISO 12677	%			
	Al <sub>2</sub> O <sub>3</sub>		11	6	
	SiO <sub>2</sub>		82		
	Fe <sub>2</sub> O <sub>3</sub>		3,5		4
	TiO <sub>2</sub>		0,4		
	CaO+MgO		2,1		
	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		0,23		
	400°C		0,25		
	600°C		0,28		
	800°C		0,30		
	1000°C		0,33		
Reversible Thermal Expansion : (20°C to 1000°C)	ISO 16835	%	0,5		
Pyroscopic Cone Equivalent :	ISO 528	°C	1490		

Dimensional tolerances:	Standard Pieces	Non-Standard Pieces
	Length	±1.5mm
Width	±1.5mm	
Thickness	±1.5mm	
Squaring	1mm / 100mm	

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

\*Exists in trimmed version

Ref. 2023/02

Physical properties are based on averages of routine quality controls carried out on standard bricks. Averages and standard deviations are indicative values, limits (Tl and Th) are guaranteed values.



IFB Refractories bricks are 100% made in France, from local raw materials, with a special attention to the environment.

Website: [www.ifbgroup.fr](http://www.ifbgroup.fr)  
Email: [ifb-sales@ifbgroup.fr](mailto:ifb-sales@ifbgroup.fr)