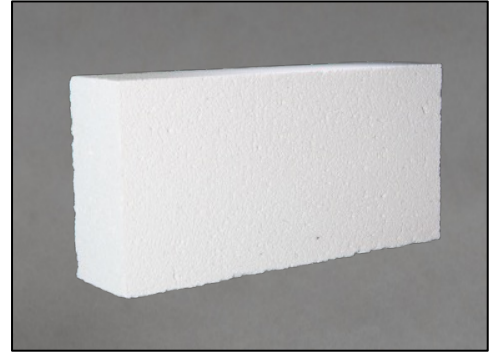


# 23-130 – Product data sheet

## Presentation :

The 23-130 brick is IFB 23 class best insulating product. It provides a very low thermal conductivity over the whole temperature range (0.28 W/m.K at 1200°C) and a cold crushing strength over 1 Mpa. It is particularly well suited for intensive energy saving applications.



Maximum classified temperature: **1300°**.



French refractory clays & local organic filler.

Properties :	Standards	Units	Average $\mu$	Limits	
				Tl (low)	Th (high)
Classification	ISO 2245		130L		
	ASTM C155		23		
Bulk density	EN 1094-4	g/cm <sup>3</sup>	0,58		0,68
Cold Crushing Strength (// to extrusion)	ISO 8895	MPa	1,3	1	
Permanent Linear Change (12h at 1300°C)	ISO 2477	%	-0,8	-1,5	
Chemical Analysis : (XRF)	ISO 12677	%			
	Al <sub>2</sub> O <sub>3</sub>		39	36	
	SiO <sub>2</sub>		56		
	Fe <sub>2</sub> O <sub>3</sub>		1,3		1,5
	TiO <sub>2</sub>		0,7		
	CaO+MgO		0,6		
	Na <sub>2</sub> O+K <sub>2</sub> O		1,8		2,1
Thermal Conductivity : (through 114mm dimension)	ASTM C182	W/m.K			
	200°C		0,15		
	400°C		0,17		
	600°C		0,21		
	800°C		0,23		
	1000°C		0,25		
	1200°C		0,28		
Reversible Thermal Expansion : (20°C to 1000°C)	ISO 16835	%	0,45		
Refractoriness under load : (T <sub>0,5</sub> ) 0,05 MPa Load	EN ISO 1893	°C	1280	1150	
Compression Creep 0,05 MPa load, 0-25h at 1050°C	EN 993-9	V <sub>15-25</sub> %/h	0,002		
		Z <sub>25</sub> %	0,05		
Pyroscopic Cone Equivalent :	ISO 528	°C	1700		

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

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

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.

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