


23-130HS – Product data sheet

Presentation:

23-130HS (High Strength) is a variation of IFB best insulating brick 23-130 with higher mechanical properties. Its cold crushing strength is over 1.5 MPa while its thermal conductivity remains close to best in class standards. It is well suited for energy saving applications with mechanical requirements.



 Maximum classified temperature: **1300°**.

 French refractory clays & local organic filler.

Properties :	Standards	Units	Average μ	Limits	
				Tl (low)	Th (high)
Classification	ISO 2245		130L		
	ASTM C155		23		
Bulk density	EN 1094-4	g/cm ³	0,67		0,75
Cold Crushing Strength (// to extrusion)	ISO 8895	MPa	2	1,5	
Permanent Linear Change (12h at 1300°C)	ISO 2477	%	-0,5	-1	
Chemical Analysis : (XRF)	ISO 12677	%			
Al ₂ O ₃			39	35	
	SiO ₂		56		
	Fe ₂ O ₃		1,1		1,5
	TiO ₂		0,8		
	CaO+MgO		0,6		
	Na ₂ O+K ₂ O		1,9		2,2
Thermal Conductivity : (through 114mm dimension)	ASTM C182	W/m.K			
200°C			0,21		
400°C			0,23		
600°C			0,26		
800°C			0,28		
1000°C			0,31		
1200°C			0,33		
Reversible Thermal Expansion : (20°C to 1000°C)	ISO 16835	%	0,45		
Refractoriness under load : (T _{0,5}) 0,05 MPa Load	EN ISO 1893	°C	1300	1100	
Compression Creep 0,05 MPa load, 0-25h at 1050°C	EN 993-9	V15-25 %/h	0,001		
		Z 25 %	0,03		
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.