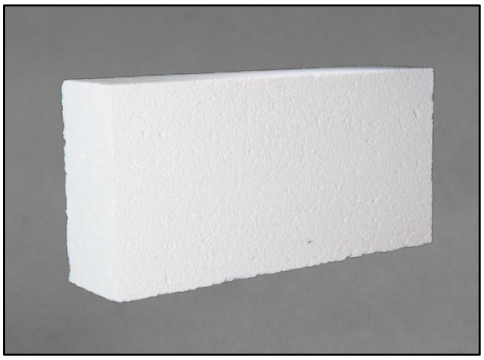
Since 1919

ALU-13B – Product data sheet

Presentation:

The ALU-13B insulating brick complies with the specifications for aluminium pots applications. Also called BIR, it offers both high insulating and mechanical properties. As it might come in contact with aluminium or fluorinated sodium, its resistance to corrosion is good.



Maximum classified temperature: **1350°**.

French refractory clays & local organic filler.

Properties :		Standards	Units	Average µ	Limits	
					Tl (low)	Th (high)
Classification		ISO 2245		135		
		ASTM C155				
Bulk density		EN 1094-4	g/cm3	1,08	1	
Cold Crushing Strength (// to extrusion)		ISO 8895	Mpa	9,5	8	
Permanent Linear Change (12h at 1350°C)		ISO 2477	%	-0,5	-1	
Chemical Analysis : (XRF)		ISO 12677	%			
	Al2O3			38	35	
	SiO2			57		
	Fe2O3			1,4		1,6
	TiO2			1		
	CaO+MgO			0,5		
	Na2O+K2O			1,5		1,7
Thermal Conductivity :		ASTM C182	W/m.K			
(through 114mm dimension)	200°C			0,34		
	400°C			0,37		
	600°C			0,40		
	800°C			0,43		
	1000°C			0,46		
	1200°C			0,48		
Reversible Thermal Expansion : (20°C to 1000°C)		ISO 16835	%	0,5		
Pyroscopic Cone Equivalent :		ISO 528	°C	1700		

Dimensional tolerances:	Standard Pieces	Non-Standard Pieces
Length	±1.0mm	According to accepted drawings
Width	±1.0mm	
Thickness	±1.0mm	
Squaring	1mm / 100mm	

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