

11-09 (M) – Product data sheet

Presentation:

The 11-09 brick is designed for 1150°C temperature applications. It offers a high level of thermal insulation (0.32 W/m.K at 1000°C) with excellent mechanical properties (CCS >3 Mpa). Typical applications include the phosphate industry.



Maximum classified temperature: **1150°**.



French refractory clays & local organic filler.

Machined version *

Properties :	Standards	Units	Average μ	Limits	
				TI (low)	Th (high)
Classification	ISO 2245		115		
	ASTM C155				
Bulk density	EN 1094-4	g/cm ³	0,92		1,01
Cold Crushing Strength (\perp to pressing direction)	ISO 8895	Mpa	4,2	3	
Permanent Linear Change (12h at 1150°C)	ISO 2477	%	-0,4	-1,5	
Chemical Analysis : (XRF)	ISO 12677	%			
	Al ₂ O ₃		22	18	
	SiO ₂		73		
	Fe ₂ O ₃		2		2,4
	TiO ₂		0,8		
	CaO+MgO		0,8		
	Na ₂ O+K ₂ O		1,2		1,6
Thermal Conductivity : (through 114mm dimension)	ASTM C182	W/m.K			
	200°C		0,24		
	400°C		0,27		
	600°C		0,28		
	800°C		0,30		
	1000°C		0,32		
Reversible Thermal Expansion : (20°C to 1000°C)	ISO 16835	%	0,7		
Pyroscopic Cone Equivalent :	ISO 528	°C	1550		

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

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