

Product definition

Insulating Bricks and Slabs

Product
:

TG34-16

Other names : 34-185, HR185, HR34-185, RL34, IR34

Ref-date : 2009-09

Maximum Classified Temperature : **1 850 °C** Mark on the brick * : TG34-16

Brand code : G220

Description: Globular corundum with very high purity. Very strong Cold Crushing Strength.

Properties :	Standards	Units	Average μ	Std. Dev. S	Limits	
					Ti (lower)	Ts (upper)
Classification :	ISO 2245		180			
Classification :	ASTM C155		34			
Bulk density :	ISO 5016	g/cm ³	1.55			1.05
Cold Crushing Strength : (// to extrusion or perpendicular to pressing direction)	ISO 8895	MPa	13.5		4	
Permanent Linear Change : 12h to 1350°C	ISO 2477	%	0			-1.5
Chemical analysis :	XRF	%				
			Al ₂ O ₃	98.5	98	
			SiO ₂	0.5		
			Fe ₂ O ₃	0.1		0.15
			TiO ₂	0.1		0.15
			CaO+MgO	0.1		0.3
			0.15			0.6
Thermal Conductivity : (Through 114 mm dimension)	ASTM C182	W/m.K				
			200 °C			
			400 °C			
			600 °C		1.25	1.55
			800 °C		1.22	1.50
			1 000 °C		1.15	1.40
			1.12			1.35
Reversible Thermal Expansion : (20°C to 1000°C)	NF B40 308	%	0,87			
Pyroscopic Cone Equivalent :	ISO 528	°C	1 970			

Dimensional tolerances:	Standard pieces	Non Standard pieces
	Length Width Thickness Squareness	±1.5%, mini ±2mm ±1.5%, mini ±2mm ±1.5%, mini ±2mm 1mm / 100mm

Other Informations :	
Recommended mortar :	Heatset : TC 1850 S or TC 1850 H (S = Dry, H = Ready to use) Airset : TH 1850 S or TH 1850 H (S = Dry, H = Ready to use)
Manufacturing Plant :	LIBOS (F47500)

Physical properties are based on averages of routine quality controls carried out from bricks 230 x 114 x 64 mm or 230 x 114 x 76 mm.

Averages and standard deviations are indicative values, limits (Ti et Ts) are guaranteed values.

* The marking is not contractual.

Frequency, Sampling, Acceptation Methods are detailed in our C.T.C./Q.P.D. (Document n° 8030).