

Product definition

Insulating Bricks and Slabs

Product : **TG34-20HP**

Other names : 34-185HP, HR185HP, 185HP

Ref-date : 2009-09

Maximum Classified Temperature : **1 850 °C** Mark on the brick * : TG34-20HP

Brand code : G230

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		185			
Classification :	ASTM C155		34			
Bulk density :	ISO 5016	g/cm ³	1.95	0.05		2.1
Cold Crushing Strength : (// to extrusion or perpendicular to pressing direction)	ISO 8895	MPa	17	2.5	12	
Permanent Linear Change : 12h to 1350°C	ISO 2477	%	0		-1	
Chemical analysis :	XRF	%				
	Al ₂ O ₃		99.5		99	
	SiO ₂		0.15			0.4
	Fe ₂ O ₃		0.1			0.15
	TiO ₂		0.05			0.1
	CaO+MgO		0.1			0.2
	Na ₂ O+K ₂ O		0.15			0.4
Thermal Conductivity : (Through 114 mm dimension)	ASTM C182	W/m.K				
	200 °C					
	400 °C					
	600 °C		1.45			1.75
	800 °C		1.35			1.65
	1 000 °C		1.30			1.60
	1 200 °C		1.30			1.60
Reversible Thermal Expansion : (20°C to 1000°C)	NF B40 308	%	0,8			
Pyroscopic Cone Equivalent :	ISO 528	°C				

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).