

PRODUCT:	POROSINT 700
TYPE:	LOW BD HOT FACE INSULATION BRICK
NATURE OF BOND:	CHEMICO – CERAMIC

GENERAL PROPERTIES

Maximum Service Temperature:	1400 °C
Reversible Thermal Expansion:	0.55% at 1000 °C

CHEMICAL ANALYSIS, %

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Al ₂ O ₃	49.00 – 53.00	51.5	BIS 12107 Part 3
Fe ₂ O ₃	1.00 – 1.50	1.20	BIS 12107 Part 6

PHYSICAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Bulk density, g / cc	0.73 – 0.83	0.82	ASTM C 134
Cold crushing strength, kg/cm ²	13 – 20	16	ASTM C 133

THERMAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Refractoriness, Orton / °C	-	+ 30 / 1665	BIS 1528 Part 1
PLC, % after heating at 1400 °C / 5 hrs	+ 0.30 to - 2.00	- 1.75	ASTM C 210
Thermal Conductivity , Kcal/m/hr/°C at 800°C HF	0.25 – 0.30	0.29	Water Calorimetric Method

- Size Tolerance:
 - ± 1 mm on standard bricks.
 - ± 1% or ± 1.5 mm whichever greater for shaped bricks
- The data are current production averages. They can not be used as limit for specification