



**INSULATING BRICKS**

**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 <sub>2</sub> O <sub>3</sub>	49.00 – 53.00	51.5	BIS 12107 Part 3
Fe <sub>2</sub> O <sub>3</sub>	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
C old crushing strength, kg/cm <sup>2</sup>	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

**AUTH. CHANNEL PARTNER - VARSHA REFRACTORIES PVT. LTD.**

Address : 04, Kailash Appt. R P Road, Near D Mart, Old RTO Compound, Behind Gurudev Hotel, Kalyan (W) 421301 Tel : 0251-2314832 / 2318832 Fax : 2314831

Email : refractory9@gmail.com Website : www.varsharefractories.com