



VARSHA
REFRACTORIES PVT. LTD.



INSULATING BRICKS

PRODUCT: POROSINT 750
TYPE: LOW BD HIGH STRENGTH HOT FACE INSULATION BRICK
NATURE OF BOND: CHEMICO – CERAMIC

GENERAL PROPERTIES

Maximum Service Temperature: 1430 °C
Reversible Thermal Expansion: 0.55% at 1000 °C

CHEMICAL ANALYSIS, %

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Al ₂ O ₃	48.00 – 50.00	48.8	BIS 12107 Part 3
Fe ₂ O ₃	0.95 – 1.35	1.20	BIS 12107 Part 6

PHYSICAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Bulk density, g / cc	0.75 – 0.86	0.84	ASTM C 134
C old crushing strength, kg/cm ²	30 – 50	35	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	+ 0.3 to – 2.50	- 1.80	ASTM C 210
Thermal Conductivity , Kcal/m/hr/°C at 800°C HF	0.28 – 0.35	0.32	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

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