



**VARSHA**  
REFRACTORIES PVT. LTD.



## INSULATING BRICKS

**PRODUCT:** POROSINT 1650  
**TYPE:** INSULATION BRICKS FOR 1650 °C TEMPERATURE  
**NATURE OF BOND:** CERAMIC

### GENERAL PROPERTIES

Maximum Service Temperature: 1650 °C  
Reversible Thermal Expansion: 0.65 % at 1000 °C

### CHEMICAL ANALYSIS, %

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Al <sub>2</sub> O <sub>3</sub>	65 – 70	67.5	IS 12107 Part 3
Fe <sub>2</sub> O <sub>3</sub>	0.7 – 1.0	0.73	IS 12107 Part 6

### PHYSICAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Bulk density, g / cc	1.15 – 1.30	1.26	ASTM C 134
C old crushing strength, kg/cm <sup>2</sup>	35 – 60	42	ASTM C133

### THERMAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Refractoriness, Orton / °C	---	+ 36 / + 1804	IS 1528 Part 1
PLC, % after heating at 1600 °C / 5 hrs	(+ 0.4) to (- 1.8)	- 1.25	ASTM C 210
Thermal Conductivity , Kcal/m/hr/°C at 800°C HF	0.44 to 0.50	0.485	Water Calorimetric method.

- Size Tolerance ± 1.0 % or ± 1.0 mm, whichever is greater
- This data relate to standard bricks only
- The data are current production averages. They can not be used as limit for specification

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