



INSULATING BRICKS

PRODUCT:	AC INS 110
TYPE:	INSULATION BRICKS FOR 1100 °C SERVICE TEMPERATURE
NATURE OF BOND:	CERAMIC
SHAPING:	PLASTICALLY MOULDED

GENERAL PROPERTIES

Maximum Service Temperature:	1100 °C
Reversible Thermal Expansion:	0.50 % at 1000 °C

CHEMICAL ANALYSIS, %

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Al ₂ O ₃	20 – 25	23.2	IS 12107 Part 3
Fe ₂ O ₃	1.8 – 2.3	2.07	IS 12107 Part 6

PHYSICAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Bulk density, g / cc	0.90 – 1.05	0.98	ASTM C 134
Apparent Porosity %	60 – 65	62	IS:1528 Part 8
Cold crushing strength, kg/cm ²	25 – 40	32	ASTM C 133

THERMAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Refractoriness, Orton / °C	---	+ 18 / + 1522	IS 1528 Part 1
PLC, % after heating at 1100 °C / 5 hrs	(+ 0.2) to (- 0.5)	- 0.30	ASTM C 210
Thermal Conductivity, Kcal/m/hr/°C at 500°C HF	0.25 to 0.30	0.28	Water Calorimetric method.

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

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