



VARSHA
REFRACTORIES PVT. LTD.



INSULATING BRICKS

PRODUCT: AC INS 140
TYPE: INSULATION BRICKS FOR 1400 °C SERVICE TEMPERATURE
NATURE OF BOND: CERAMIC
SHAPING: PLASTICALLY MOULDED

GENERAL PROPERTIES

Maximum Service Temperature: 1400 °C
Reversible Thermal Expansion: 0.50 % at 1000 °C

CHEMICAL ANALYSIS, %

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Al ₂ O ₃	37 – 41	39.0	IS 12107 Part 3
Fe ₂ O ₃	1.7 – 2.2	2.00	IS 12107 Part 6

PHYSICAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Bulk density, g / cc	0.95 – 1.05	1.00	ASTM C 134
Apparent Porosity %	60 – 66	63.0	IS:1528 Part 8
Cold crushing strength, kg/cm ²	25 – 40	35	ASTM C 133

THERMAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Refractoriness, Orton / °C	--	+ 28 / + 1646	IS 1528 Part 1
PLC, % after heating at 1400 °C / 5 hrs	(+ 0.3) to (- 1.50)	- 1.20	ASTM C 210
Thermal Conductivity, Kcal/m/hr/°C at 500°C HF	0. 27 to 0.32	0.30	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

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