

# INSULATING BRICKS

BRAND NAME	Varsha-HFI-110	Varsha-HFK-135	Varsha-HFK-140	Varsha-P-500	Varsha-P-650	Varsha-P-700	Varsha-P-750
<b>PHYSICAL PROPERTIES</b>							
Bulk Density (g/cc) Max.	1.0	1.10	1.00	0.55	0.65	0.80	0.80
Apparent Porosity (%) Min	60	60	60	-	-	-	-
CCS (kg/cm <sup>2</sup> )Min.	25	30	25	7	25	13	40
Service Temperature (°C)Max.	1100	1350	1400	1300	1430	1400	1430
Nature of Bond	Ceramic	Ceramic	Ceramic	Chemico-Ceramic	Chemico-Ceramic	Chemico-Ceramic	Chemico-Ceramic
Base Raw Materials	Fire Clay, Mica	Fire Clay, Kyanite	Fire Clay, Kyanite	Synthetic Alumina	Synthetic Alumina	Synthetic Alumina	Synthetic Alumina
<b>CHEMICAL ANALYSIS (%)</b>							
Al <sub>2</sub> O <sub>3</sub> (Min.)	20	30	40	40	52	55	50
Fe <sub>2</sub> O <sub>3</sub> (Max.)	2.0	2.0	2.0	1.0	1.5	1.5	1.5
<b>THERMAL PROPERTIES</b>							
PCE (°C/OC)Min.	1564/20	1659/29	1665/30	1605/23	1665/30	1665/30	1683/31
PLC (%) Max.	±0.5 at 1100°C/5h	±1.5 at 1350°C/5h	±1.5 at 1400°C/5h	±1.05 at 1300°C/5h	±1.5 at 1430°C/5h	±1.5 at 1400°C/5h	±1.5 at 1430°C/5h
RTE (%) at 1000°C Max.	0.50	0.50	0.50	0.55	0.55	0.55	0.55
Thermal Conductivity (W/m.K) at:							
Hot Face Temperature at 500°C	0.3	0.35	0.35	-	-	-	-
Hot Face Temperature at 800°C	-	-	-	0.26	0.33	0.35	0.35

**NOTE:**

1. Size tolerance: ±1.5% or ±2.0% whichever is greater.
2. VRPL does not warrant the accuracy, fitness for purpose or updates of any information disclosed herein. Specification of the products may change based on the geographical area to be supplied.
3. Max. & Min. Values are given separately for testing purposes.
4. Data shown are based on average results of production samples and are subject to normal variation during individual tests.
5. The information contained herein are exclusive property of VRPL.