



## HIGH AND MID ALUMINA BRICKS

**DATA SHEET****April-19**

SR NO	CLASSIFICATION	RESULTS			
		IK50	IK70	IK59	IK60
1	Apparent Porosity (%)	20-22 (Max.)	21-23	15	16
2	Bulk Density (g/ml)	2.40 (Min.)	2.65-2.60	2.5	2.52
3	Cold Crushing Strength (MN/m <sup>2</sup> )	45 (Min.)	700	58	55
4	Permanent Linear change (%) 2h @ 1500 °C	-0.25/0.40	_1.2-2.00	±0.3	nil
	Thermal Expansion (%) 20- 1200 °C	-	-	0.6	0.6
5	Thermal Conductivity (w/mK) Mean Temperature 900 °C	1.28	1.40	1.89	1.89



<b>6</b>	Chemical Analysis (%)				
	SiO <sub>2</sub>	41.5	20.8	39.5	36
	TiO <sub>2</sub>	3.5	3.85	0.4	0.4
	Fe <sub>2</sub> O <sub>3</sub>	2.9	3.2	1.25	1
	Al <sub>2</sub> O <sub>3</sub>	51.00	71.0	58.5	62
	CaO	0.1	0.15	0.1	0.1
	MgO	0.2	0.25	0.2	0.2
	K <sub>2</sub> O	0.5	0.4	0.4	0.4
Na <sub>2</sub> O	0.3	0.35	0.1	0.1	

<b>7</b>	TREATMENT	BAUXITE	BAUXITE BASED	FIRED	FIRED
		BASED DRY PRESSED	DRY PRESSED HIGH ABRASION RESISTANT PRODUCT SUITABLE FOR ROLLING MILL HEAT TREATMENT FURNACE ETC.		