



INSULATION BRICKS

USER INDUSTRIES	APPLICATION
<ul style="list-style-type: none"> • Ceramic, Metallurgical • Carbon black • Fertiliser • Iron & Steel • Power generation 	High temperature kiln hot face & backup lining Back up lining Primary reformer and hydrogen transfer lines back up, Secondary reformer cold face Blast furnace stoves High temperature air pre-heaters

DATA SHEET							April-19	
SR NO.	PROPERTIES	IK 23		IK 25		IK 26		
		Limit Value	Typical Value	Limit Value	Typical Value	Limit Value	Typical Value	
1	Maximum Hot Face Temperature , °C	1260	1260	1350	1350	1400	1400	
2	Bulk Density gm/cc	0.60 Max.	0.55	0.85 Max.	0.80	0.90 Max.	0.86	
3	Cold Crushing Strength Kg/cm ²	10 Min.	12	20 Min.	25	15 Min.	18	
4	Reheat Change (For 24 hrs.) , %	±1.5Max. at1250° C	-0.7 at1250° C	-0.5Max. at1300° C	-0.2 at1300° C	-0.7Max. at1350° C	-0.2 at1350° C	
5	Thermal Conductivity W/m ² K							



	At 400° C Hot Face Temp.	0.20 Max.	0.14	0.27 Max.	0.19	0.28 Max.	0.17
	At 600° C Hot Face Temp.	0.25 Max.	0.17	0.30 Max.	0.22	0.30 Max.	0.23
	At 800° C Hot Face Temp.	0.30 Max.	0.24	0.36 Max.	0.30	0.42 Max.	0.31
	At 1000° C Hot Face Temp.	0.35 Max.	0.26	0.43 Max.	0.35	0.50 Max.	0.35
	At 1200° C Hot Face Temp.	0.40 Max.	0.30	-		0.55 Max.	0.38

6	Chemical Analysis %						
	Al ₂ O ₃	35.0 Min.	37.20	50.0 Min.	51.72	55.0 Min.	57.34
	SiO ₂	-	45.10	-	-	40.0 Max.	39.15
	Fe ₂ O ₃	1.0 Max.	0.80	1.0 Max.	0.80	1.0 Max.	0.80

Note: The above typical values shown are based on average test result on standard samples. Properties are subjected to reasonable variation based on product shape etc. and hence should be considered for general guidance only.

IK insulation exhibit unique combination of chemical, mechanical stability and insulating properties. They are suitable for applications at service temperatures ranging from 1250 C to 1850 C. They can be directly exposed to flame, and combustion products.

OUTSTANDING FEATURES

- Very high refractoriness, structural strength
- Low thermal conductivity, shrinkage and creep
- High resistance to reducing atmosphere
- Uniform pore size and distribution

IK 23, 25, 26: Calcined clay and Calcined Alumina based product

Feasibility of special shapes require case-by-case study by IK manufacturing and Technical team. We would request all our customers to kindly ask IK Sales Representatives for detail Product Data, Quality Assurance Plans etc. as and when applicable.