



## Insulating Firebricks

### Typical Data

Properties	IFB23-C	IFB26-C	IFB28-C	IFB30-C	IFB32-C
<b>Classification Temperature (°C)</b>	1260	1430	1540	1650	1760
<b>Density (kg/m<sup>3</sup>)</b>	480	780	880	1020	1250
<b>Cold Crushing Strength (MPa)</b>	1.2	1.6	2.1	2.2	3.5
<b>Cold Modules of Rupture (MPa)</b>	1.0	1.5	1.8	2.1	2.1
<b>Permanent Linear Change (%)</b> 24h soak at Temperature, °C	-0.2 1230	-0.1 1400	-0.4 1510	-0.8 1620	-0.6 1730
<b>Linear Thermal Expansion (%)</b> Reversible, Max	0.5	0.7	0.8	0.9	1.1
<b>Thermal Conductivity (W/mk)</b> Mean Temperature, °C					
400					0.49
600	0.12	0.25	0.30	0.38	0.50
800	0.14	0.27	0.32	0.39	0.51
1000	0.17	0.30	0.34	0.40	0.53
1200	0.19	0.33	0.36	0.41	0.56
	-	0.35	0.38	0.42	
<b>Chemical Analysis (%)</b>					
<b>Al<sub>2</sub>O<sub>3</sub></b>	37.0	58.0	67.1	73.4	77.0
<b>SiO<sub>2</sub></b>	44.4	39.1	31.0	25.1	21.5
<b>Fe<sub>2</sub>O<sub>3</sub></b>	0.7	0.7	0.6	0.5	0.3
<b>TiO<sub>2</sub></b>	1.2	0.1	0.1	0.1	-
<b>CaO +MgO</b>	15.5	0.3	0.2	-	0.1
<b>Na<sub>2</sub>O +K<sub>2</sub>O</b>	1.1	1.7	0.9	0.9	0.9
<b>Dimensional Tolerances (mm)</b>	+/-0.8	+/-0.8	+/-0.8	+/-0.8	+/-0.8

### Advantages of using the IFB-C series:

- Very light-weight characteristic
- Low thermal conductivity and excellent heat resistance
- Maintain good dimensional stability at elevated temperature.
- Designed for low heat losses application

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The above physical and chemical properties of insulating Firebricks represent values on standard sizes in accordance with accepted testing methods and are subject to manufacturing variations. This information as a reference indication and may change without notice due to natural variations with raw materials.