

Insulating Fire Brick

Typical Physical Properties					
Grade		IN-23	IN-26	IN-28	IN-30
Classification Temperature ASTM C155	°F	IN-23 2300	IN-26 2600	IN-28 2800	IN-30 3000
	°C	1260	1427	1538	1649
Density ASTM C134	lb/ft ³	36	50	55	64
	Kg/m ³	577	801	881	1025
Modulus of Rupture ASTM C133	lb/in ²	124	200	450	220
	MPa	.85	1.38	3.10	1.52
Cold Crushing Strength ASTM C133	lb/in ²	260	320	360	363
	MPa	1.8	2.2	2.5	2.5
Permanent Linear Change ASTM C210 (after heating 24 hours @)	%				
	°F(°C)				
	2246 (1230)	0.0			
	2550 (1399)		-0.4		
	2750 (1510) 2950 (1620)			-0.09	-1.3
Thermal Conductivity ASTM C182	Btu-in/ft ² .hr, °F				
	W/mk				
	752 °F	1.25	1.88	1.81	2.72
	400 °C	0.18	0.27	0.26	0.39
	1112 °F	1.39	2.09	2.02	2.93
	600 °C	0.20	0.30	0.29	0.42
	1472 °F	1.60	2.30	2.16	2.30
	800 °C	0.23	0.33	0.31	0.43
1832 °F	1.81	2.51	2.37	3.07	
1000 °C	0.26	0.36	0.34	0.44	
Typical Chemical Composition					
		IN-23	IN-26	IN-28	IN-30
Silica - SiO ₂		39.7%	39.1%	31.3%	24.8%
Alumina - Al ₂ O ₃		56.3%	57.2%	65.8%	73.0%
Titania - TiO ₂		1.5%	1.1%	0.8%	0.4%
Iron Oxide - Fe ₂ O ₃		0.7%	0.7%	0.7%	0.7%
Lime - CaO		0.4%	0.5%	0.2%	0.2%
Magnesia - MgO		0.4%	0.4%	0.2%	0.2%
Soda - Na ₂ O		0.1%	0.2%	0.3%	0.1%
Potash - K ₂ O		0.9%	0.8%	0.5%	0.6%

IFB Straights	Brick Type	IN-23	IN-26	IN-28	IN-30
	Temp (°F)	2300	2600	2800	3000
#1 (9 x 4.5 x 3 inch)	Each	\$ 2.40	\$ 3.00	\$ 4.50	\$ 7.40
	Carton of 20	\$ 48.00	\$ 60.00	\$ 90.00	\$ 148.00
#2 (9 x 4.5 x 2.5 inch)	Each	\$ 2.10	\$ 2.50	\$ 3.80	\$ 6.20
	Carton of 25	\$ 52.50	\$ 62.50	\$ 95.00	\$ 155.00

Notes:

- Bricks must be shipped by truck, not courier service
- 24 cartons per pallet
- \$25 handling fee for less than a pallet
- Only "straights currently stocked
- All other types (arch, wedge & key) can be obtained in 4-6 weeks
- Full pallet pricing up to 25% discounts.
- For best pricing on large orders, contact us.



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