

# Insulating Fire Brick

Typical Physical Properties			IN-23	IN-26	IN-28	IN-30
Grade						
Classification Temperature ASTM C155	°F	2300	2600	2800	3000	
	°C	1260	1427	1538	1649	
Density ASTM C134	lb/ft <sup>3</sup>	36	50	55	64	
	Kg/m <sup>3</sup>	577	801	881	1025	
Modulus of Rupture ASTM C133	lb/in <sup>2</sup>	124	200	450	220	
	MPa	.85	1.38	3.10	1.52	
Cold Crushing Strength ASTM C133	lb/in <sup>2</sup>	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)			-0.09		
Thermal Conductivity ASTM C182	Btu-in/ft <sup>2</sup> .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 <sub>2</sub>		39.7%	39.1%	31.3%	24.8%	
Alumina - Al <sub>2</sub> O <sub>3</sub>		56.3%	57.2%	65.8%	73.0%	
Titania - TiO <sub>2</sub>		1.5%	1.1%	0.8%	0.4%	
Iron Oxide - Fe <sub>2</sub> O <sub>3</sub>		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 <sub>2</sub> O		0.1%	0.2%	0.3%	0.1%	
Potash - K <sub>2</sub> O		0.9%	0.8%	0.5%	0.6%	

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

### 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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