# **Insulating fire brick**





Typical application

Recommended for use as a primary hot face refractory lining or as back-up insulation behind other refractory in furnace, kilns, flues, refining vessels, heaters, regenerators, gas producers and main, soaking pits, annealing furnace, catalyst case and similar high temperature industrial equipment.

## **Description**

Chinese Refractory raw material resources are abundant, which are suitable for the production of various grades of insulating firebrick. Limiting temperature of use range from  $900^{\circ}$ C to  $1650^{\circ}$ C. Each grade of insulating firebrick is formulated to meet specific thermal and physical requirements.

Top grade insulating firebrick are made from high-purity refractory clays, with graduated additions of alumina for the higher temperature products, and a carefully graded organic filler, which burns out during manufacture to give a controlled, uniform lacuna structure. Each brick machined to precise size on all six faces. The maximum continue use temperature depends on application.

### **Features**

- 1. Low thermal conductivity
- 2. Low thermal capacitance
- 3. Low impurity content
- 4. High hot compressive strength
- 5. Accurate dimension

## specification

Items		Testing Temperature(°C) When reheated with g/cm3 2% contracting rate		Pressure Strength Mpa	Thermal Conductivity kcal/mh°C (350°C)
А	A-1	900	≤0.50	≥0.50	≤0.13
	A-2	1000	≤0.50	≥0.50	≤0.14
	A-3	1100	≤0.50	≥0.50	≤0.15
	A-4	1200	≤0.55	≥0.80	≤0.16
	A-5	1300	≤0.60	≥0.80	≤0.17
	A-6	1400	≤0.70	≥1.00	≤0.20
	A-7	1500	≤0.75	≥1.00	≤0.22
В	B-1	900	≤0.70	≥2.50	≤0.17
	B-2	1000	≤0.70	≥2.50	≤0.18
	B-3	1100	≤0.75	≥2.50	≤0.20
	B-4	1200	≤0.80	≥2.50	≤0.22
	B-5	1300	≤0.80	≥2.50	≤0.23
	B-6	1400	≤0.90	≥3.00	≤0.27
	B-7	1500	≤1.00	≥3.00	≤0.31
С	C-1	1300	≤1.10	≥5.00	≤0.30
	C-2	1400	≤1.20	≥7.00	≤0.38
	C-3	1500	≤1.25	≥10.00	≤0.45

Main	Classify	Apparent	Chemical component Wgt %			Bending	Cold crushing	
property	temperature	density	Al2 O3	SiO2	Fe2 O3	K2 O + Na2O	strength	strength
	$\mathbb{C}$	kg/m3	%	%	%	%	Мра	Мра
DM20	1100	550	45.00	50.00	1.00	1.00	0.70	0.80
DM23	1260	530	45.00	51.00	0.80	0.72	0.70	1.00
DM25	1350	800	52.00	41.55	0.62	0.81	1.20	1.80
DM26	1430	780	59.00	37.00	0.70	0.70	1.80	2.00
DM28	1540	880	64.00	32.00	0.60	0.60	2.00	2.50
DM30	1600	1000	70.00	28.00	0.33	0.21	2.00	3.00
JM23	1260	480	37.00	44.40	0.70	1.10	1.00	1.20
JM26	1430	800	58.00	39.10	0.70	1.70	1.50	1.60
JM28	1540	890	67.10	31.00	0.60	0.90	1.80	2.10
JM30	1650	1020	73.40	25.10	0.50	0.90	2.10	2.20