

CAMBRIAN MINERALS & CHEMICALS Pvt. Ltd.

Catalogue



An ISO 9001:2008 Certified Company

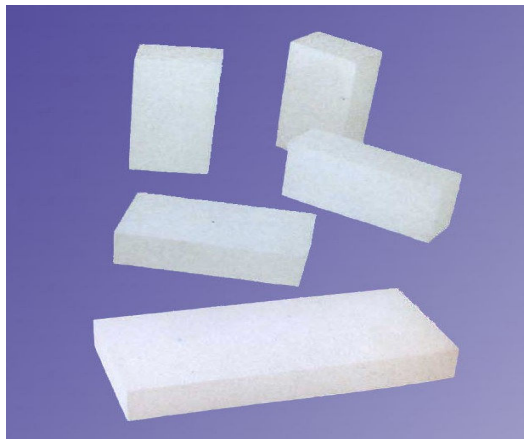
**Refractory Manufacturing
Engineering
Consulting
Export
Sales**

India's Leading Refractory Manufacturer



Edition: 2011

ACID RESISTANT BRICKS & TILES



S.no	Tests	As per ISO I.S. 4860 :1968	
		Class 1	Class 11
1	Water absorption % Max	2%	4%
2	Flexural Strength kg/cm Min	100	70
3	Compression Strength kg/cm Min	700	500
4	Acid Loss % Max.	1.5	4
5	Resistance to wear mm. Max	2 mm	-

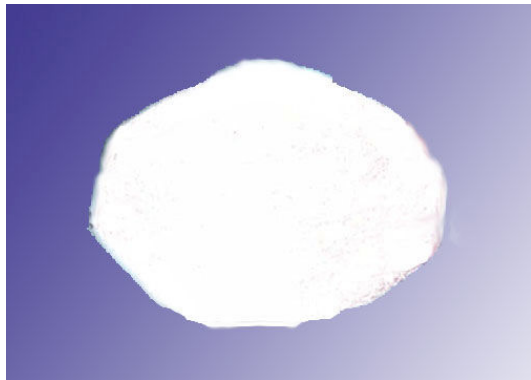
ACID RESISTANT BRICKS & TILES

Unglazed Acid Proof clay brick are acid & alkali resistant. The raw material of these bricks is fully acid resistant in nature, having low lime & Iron content. These bricks are manufactured by most modern Technology which gives compact, denser and stronger body. It is vitrified at higher temperature in tunnel kiln to withstand the action of all minerals acids except hydrofluoric acid. These bricks are very good abrasion resistant for flue gasses of power house chimneys, battery Rooms and floor areas.

Product Application

- Acid/alkali proof storage tanks
- Effluent treatment plants
- Pickling plants
- Chemical plants : Acids and Alkalis
- Vessels/reactors
- Electroplating plants
- Laboratory & heavy duty floors
- Fertilizer plants
- Cement plants
- Thermal power plants for chimney construction, DM Plants
- Petrochemicals and refineries

ACID RESSISTANT MORTAR



S.no	Properties	As per ISO I.S. 4832 {part 1} : 1969}
1	Working Time Min at 27 ⁰ C	20 minutes
2	Flexural Strength Min Kg/cm ² {After 7 days}	40
3	Compressive Strength Min Kg/cm ² {After 7 days}	150
4	Bond Strength Min Kg/cm ²	5
5	Absorption of Toluene Max , % by weight	18

ACID RESSISTANT MORTAR

CAMBRIAN'S ACID RESSISTANCE MORTAR is a Potassium silicate base mortar made from liquid and powder with hardening agent. It is widely used as a bedding mortar in all type of bricks , tiles & stone lining works and it solves corrosion problems involving oxidizing acids { i.e Sulphuric acid , nitric acid , hydrochloric acid , chromic acid , phosphoric acid}. It is the only mortar that will resist the high concentrations of these aggressive corrosives. It has much higher temperature resistance limit than other based materials and for that reason it is used for the construction of Flues of RCC CHIMNEYS, Incinerators, Roasters. It can easily withstand temp upto 900⁰ C.

STORAGE & SHELF LIFE:

The shelf life of the mortar is 12 months under dry conditions provided the containers of liquid are kept sealed and mortar powder are kept in covered and moister free area.

FIRE CLAY BRICKS



FIRE CLAY BRICKS

We offer superior Fire Clay Refractory Bricks that are made from high grade raw materials. Our fire bricks are made from fire clay and can also be used as refractory insulating bricks to maintain constant temperature. Our Refractory Bricks are characterized by porosity, mechanical resistance and thermal conductivity.

Product Application

- Boiler Furnace Lining
- Waste heat flue lines
- Blast Furnace Stack & Steel Ladle Lining
- Reheating Furnaces Lining

Brand	Al2O3%	Fe2O3%	A.P.%	B.D (gms/cc)	CCS (kgs/cm ²)	PCE (OC)	RUL Ta °C	PLC % (°C/Hrs)
	Min.	Max.	Max.	Min.	Min.	Min.	Min.	Max.
CMC 30	30	2.50	25	2	200	30	1300	1350/2HRS+/-1
CMC 30D	33	2.00	20-23	2.1	250	30	1300	1350/2HRS+/-1
CMC 35D	35	2.00	18	2.1	250	31.5	1370	1350/2HRS+/-0.8
CMC HGD	36	2.00	16	2.1—2.15	400	31.5	1380	1380/2HRS+/-0.8
CMC 40	40	2.50	25	2.1	200	32	1400	1400/2HRS+/-1
CMC 40D	40-42	1.80	23	2.2	250	32	1420	1450/2HRS+/-0.5

INSULATION BRICKS



Insulating bricks are made by fireclay raw materials for applications till 1300 °C while for higher temperatures (even 1600 °C) raw materials are sillimanite, mullite, silica and alumina. To be considered insulating materials the ceramic products must have a porosity of 45% as a minimum and may range upto 75%

INSULATION BRICKS

It's a high porosity insulating materials contain a big quantity of air which, due to its low thermal conductivity, is the determinating factor of the product low thermal conductivity.

To arrest the thermal radiation loss and to check the heat losses of furnace for longer life of linings, different qualities of Insulating Refractories (Both cold & hot face) are supplied according to the application areas. These bricks have densities and conductivities ranging from low to moderate, low thermal expansion and very high resistance to thermal spalling

Insulation Bricks find application in Iron & Steel, Cement, Chemical, Copper, Glass plant & other Industries.

Product Brand	CMC CF-10	CMC CF-11	CMC HF-13
AL ₂ O ₃ % Min.	28	28	30
Fe ₂ O ₃ % Max.	2.0	2.0	2.0
PCE (OC) Max.	27	27	30
AP % Min.	65	60	60
Bulk Density gms/cc	0.75-0.90	0.80-1.00	0.90-1.00
CCS Kg/cm ² Min.	10	20	30
PLC % at °C/Hrs. Max.(+/-)	0.5 at 1000 ^o C /5 Hrs.	0.5 at 1000 ^o C /5 Hrs.	1.5 at 1300 ^o C /5 Hrs.
Thermal conductivity 6000C(K/cal/m/Hr/0C)	0.20	0.25	0.30
Service Temp. (0C)	1000	1100	1300

CASTABLE REFRACTORY



Special Features

- Perfect for backup and hot face linings
- Made from optimum quality materials
- Low thermal conductivity
- Conservation of heat energy

CASTABLE REFRACTORY

CMC-CAST-1250 is an aluminous hydraulic concrete recommended for use as casting in monolithic linings in various industrial furnaces, boilers and kilns for working temperatures upto 1250⁰c, Also for casting urgently need special shapes with speeded endeaurance.

To keep the properties intact for a longer period of time, our High Alumina Refractory Castables are available in quality packing. We are counted among the prominent High Alumina Refractory Castables Suppliers based in India.

S.no	Physical	
1	Type	Hydraulic Setting
2	Max Service Temp.	1200 ⁰ c
3	Max Grain Size	6 mm
4	Bulk Density	
	a) Loose	1.80 gm/cc
	b) After Drying	1.95 gm/cc
5	Cold Crushing Strength	
	a) After cast & drying at 110 ⁰ C	200 Kg/cm ²
	b) At 800 ⁰ C	70 Kg/cm ²
	c) At 1250 ⁰ C	150 Kg/cm ²
6	Permanent Linear Change at	10%
	Chemical	
7	Alumina Content (Al ₂ O ₃)	35%
8	Silica Content (Si ₀ 2)	47%

CAMBRIAN MINERALS & CHEMICALS Pvt. Ltd.

4 KM STONE, BURJA ROAD,
ALWAR (RAJASTHAN) – 301001
INDIA

PHONE: +91-144-2331944

FAX: +91-144-2337805

E-Mail: cambrianref@hotmail.com

Website: www.cambrianrefractories.com

ISO 9001:2008

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