BẢO SƠN

CÔNG TY TNHH VẬT LIỆU CHỊU LỬA BẢO SƠN

COMPANY PROFILE

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COMPANY
INTRODUCTION

Bao Son Refractory was founded in 2007 at 98 Hanoi Highway, Long Binh Tan, Bien Hoa, Dong Nai, Vietnam.

Bao Son Refractory specializes in manufacturing and trading refractory materials, insulation materials, and soundproof materials for heavy industries, metallurgy, textile industry, chemical production, cement, steel, etc. With modern equipment, advanced warehousing systems, and skilled labor force, Bao Son Refractory is committed to providing high-quality products, guaranteed delivery schedules, reasonable prices, and dedicated customer service to meet the requirements and needs of customers.

Bao Son has also exported its products to many countries such as the United States, India, Japan... with high quality that meets the requirements of customers.

VISION

- Become a wholesale and retail supplier of heat-resistant materials in the global market
- Become a reliable partner for large construction projects that use fire-resistant, heat-resistant, insulation, and soundproofing materials

MISSION

- For customers: provide high-quality products, goods, and services at competitive prices
- For partners: maintain credibility and respect in cooperation to develop together
- For employees: create job opportunities and stable income, improve the spiritual and material life of employees
- For society: contribute to building a prosperous and developed society

FIRE BRICK

Fire brick with an aluminum alloy (Al2O3) content of 20-22%, are highly durable, have low thermal conductivity and can withstand thermal shock.

Applications:

Fire brick are widely used in the construction of furnaces for metal smelting, glass-making, waste incineration, and many other industrial applications.

Features:

- Low thermal conductivity, good thermal insulation performance
- Long service life, easy operation, could be shaped freely
- Product specification: standard form, normal standard, shaped and special shaped bricks

Item	Test Result
Bulk Density (g/cm3)	1.95
Al2O3 (% min)	20.3
Fe2O3 (%)	1.66
Apparent Porosity (%)	24.4
Refractoriness (°C)	1530
Cold Crushing Strength (Mpa)	13.4
Refractoriness under load, 0.2 Mpa, ≥ (°C)	1390

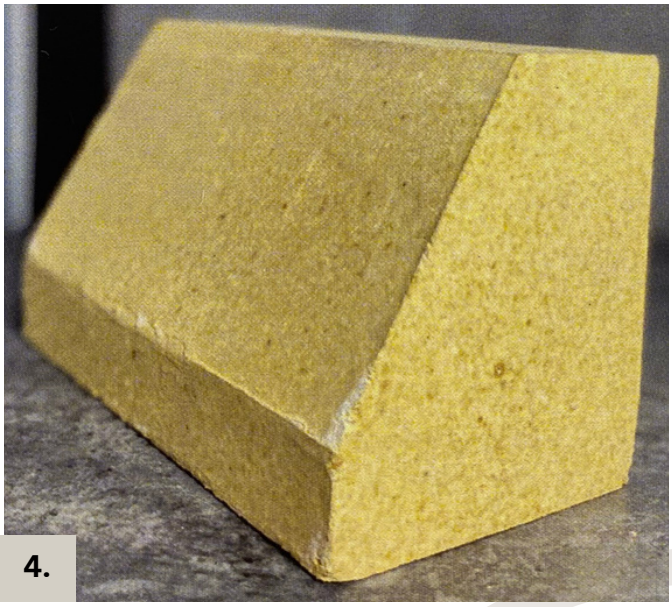
OTHER SPECIFICATIONS OF FIRE BRICK

Fire bricks have various shapes and sizes according to customer requirements, such as rectangular-shaped refractory bricks, thin fire brick, wagon surface bricks, 7 inch fire brick, beveled brick, etc.

Thin Fire Brick

Wagon Surface Bricks

7 Inch Fire Brick



Beveled Brick

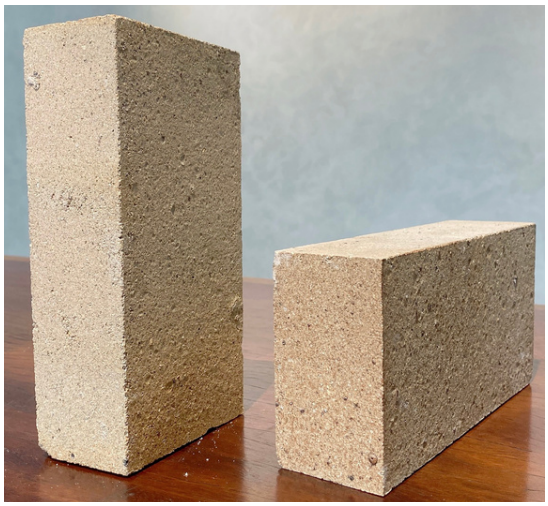
HIGH ALUMINA BRICK

High alumina bricks are produced with selected bauxite chamotte by advanced process and strict quality control. The main mineral components are corundum and mullite phases

Applications:

- Steel furnaces
- Iron making furnaces
- Glass kiln
- Ceramic tunnel kiln
- Cement kiln

Item	35% High Alumina Brick	38% High Alumina Brick	42% High Alumina Brick	50% High Alumina Brick
Bulk Density	2.2	2.25	2.3	2.3
Al2O3 (% min)	35	38	42	50
Fe2O3 (%)	2	1.97	1.7	1.7
Apparent Porosity	20	21	22	23
Refractoriness (°C)	1750	1750	1770	1770
Cold Crushing Strength (Mpa)	40	50	55	55
Refractoriness under load, 0.2 Mpa, ≥ (°C)	1550	1550	1550	1550



Features:

- Resisting high temperature
- Great bulk density
- Low iron content
- Good eroding resistance

INSULATION BRICK

Insulation bricks are capable of withstanding maximum heat of 1400°C. Each grade of brick is formulated to meet specific thermal and physical requirements. After firing each brick is machined to close dimensional tolerances.

Item		B-2
Bulk Density (g/cm3)		0.79
SiO2 (%)		58.8
Al2O3 (%)		35
Fe2O3 (%)		1
Temp of reheat liner change less than 2% (°C)		1250
Thermal Conductivity (W/M.K)	110°C	0.17
	350°C	0.22
Crushing Strength (Mpa)		2.5

Applications:

- Primary hot face linings
- Back-up insulation for furnaces and kilns
- Flue insulation
- Sulphur recovery equipment
- Hot blast stoves

Features:

- High insulating properties
- Strong compressive strength
- Low heat storage
- High purity
- Tight dimensional tolerance
- Energy saving
- Low impurities

CONVENTIONAL DENSE CASTABLE

Conventional castable is mixed by high quality bauxite, silica fume, and refractory cement, Formulas can be changed according to different applications. Usually we classify the conventional castable by the content of Al2O3, when the content of Al2O3 is less than 40%, we call it conventional castable.

Features:

- Good abrasion resistance
- Good thermal shock resistance
- Good high-temperature resistance

Applications:

- Boiler (CFB, Chain Boiler,etc)
- Steel Industrial

Item	BSC-13	Unit	Standard
Chemincal composition			
Al2O3	≥30	%	
SiO2	55	%	TCVN 6553
Fe2O3	3	%	
CaO	8.7	%	
Bulk density	2.1	g/cm3	TCVN 6553
Refractoriness	1350	°C	TCVN 6553
Cold crushing strength			
After drying at 110°C	40	Mpa	TCVN 6553
After firing at 1400°C, 3h	45	Mpa	
Thermal conductivity at 800°C	0.6	W/m/K	TCVN 6553

BAO SON REFRACTORY

HIGH ALUMINA CASTABLE

HIGH ALUMINA CASTABLE

High Alumina castable is mixed by high quality bauxite, Mullite, andalusite or Corundum as aggregate, Silica Powder, α-alumina powder as micro powder, refractory cement as binder, also some additive to make better performance. Formulas are changed according to different applications.

Features:

- Excellent abrasion resistance
- Excellent high-temperature resistance
- Excellent Crushing Strength
- Anti-corrode

Applications:

- Incinerators, Aluminium, Cement Industrial.
- Steel Industrial (Ladle, Tundish, Induction Furnace,etc)

Item	BSC-14	BSC-15	Unit	Standard
Chemincal composition				
Al2O3	≥45	≥60	%	
SiO2	38	21	%	TCVN 6553
Fe2O3	2.5	2.5	%	
CaO	8.7	5.5	%	
Bulk density	2.3	2.4	g/cm3	TCVN 6553
Refractoriness	1430	1570	°C	TCVN 6553
Cold crushing strength				
After drying at 110°C	45	55	Mpa	TCVN 6553
After firing at 1400°C, 3h	50	60	Mpa	
Thermal conductivity at 800°C	0.6	0.8	W/m/K	TCVN 6553

INSULATION CASTABLE

The material basis of insulation castable can be Perlite, vermiculite,light weight clay, light weight mullite or bubble alumina according to the different working temperature.

Features:

- Low Density
- Low Heat Thermal Conductivity

Applications:

- Furnace/Back-Up Lings
- Other Insulating Linings

Item	Value	Unit	Standard
Chemincal composition			TCVN 6533:1999
Al2O3	36	%	
SiO2	38	%	
CaO	19.3	%	
Bulk density	1.1	g/cm3	ASTM C134
Permanent change on heating at 815°C/3h	0.1	%	ASTM C133
Thermal conductivity (Thot = 850°C)	1,48	W/mK	ASTM C177
Cold crushing strength			TCVN 7949 - 1:2008
After drying at 110°C	5,01	Mpa	
After firing at 1000°C, 3h	6,37	Mpa	

CÔNG TY TNHH VẬT LIỆU CHỊU LỬA BẢO SƠN

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