



 **DALIAN GAOTENG**  
DALIAN GAOTENG INTERNATIONAL TRADING CO., LTD.



 **DALIAN GAOTENG**  
DALIAN GAOTENG INTERNATIONAL TRADING CO., LTD.

ADD: No.78 Luxun Road, Zhongshan District, Dalian, China

Tel: +86-411-82741622

Fax: +86-411-82741722

Email: info@gttl.com.cn

gaoteng@gttl.com.cn

http://www.gttl.com.cn

http://gaotengtrading.en.alibaba.com



Strict **Quality** Control



Professional **Service**



Competitive **Price**

DALIAN GAOTENG  
DALIAN GAOTENG INTERNATIONAL TRADING CO., LTD.

## ■ About Us

- Dalian Gaoteng was set up in 2000.
- Passed ISO9000, the certificate No. is USA10Q22233R0S.
- Professional supplier of ceramic grinding media and related products.
- Owning ourselves mines and factory, production capacity of 10000MT per year.
- Exporting to worldwide countries:  
Europe, Southeast Asia, Japan, Korea, Middle East, North Africa and etc.
- Main clients:  
TOTO LIMITED (China and Indonesia)  
ENDEKA CERAMICS (Spain, China, India and Malaysia)  
AL-JAWDAH CERAMICS CO (Saudi Arabia)  
TOKAI KOGYO CO.,LTD (Japan)  
"ROSSINTEZ" LTD (Russia)
- Owning ourselves international logistics company, can supply professional logistics service.
- The member of WIFFA, the certificate No. is WIFFA W0002492.

## ■ Our Products:

- Silica Pebbles
- Silex Lining Brick
- Alumina Ball
- Alumina Lining Brick
- Aluminate Cement
- Calcined Kaolin



## SILICA PEBBLES



### Chemical Composition and Physical Properties:

SiO <sub>2</sub>	≥99.31%
Al <sub>2</sub> O <sub>3</sub>	≤0.36%
Fe <sub>2</sub> O <sub>3</sub>	≤0.018%
Specific weight	≥2.66g/cm <sup>3</sup>
Hardness mohs	≥8
Porosity	≤0.38%
Actual abrasion rate of pebble	≤1.35
Appearance of pebble	Round(ellipse)
Color of product after burning	Gray and white

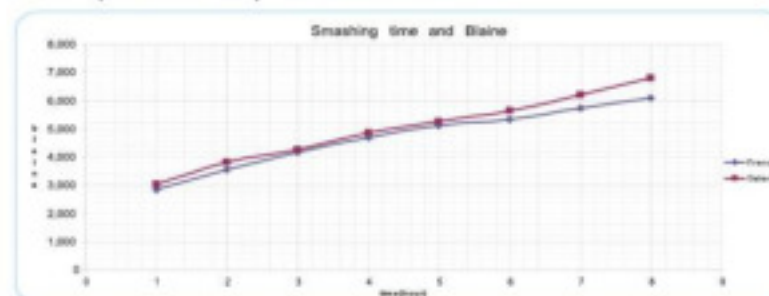
### Size

Small Size	Middle Size	Big size
2-4cm	6-8cm	10-12cm
4-6cm	8-10cm	12-15cm

### Abrasion Degree (for 8H smashing)

Type	Decrement
French	54g
Dalian	40g

### Comparison of our product and French



### Application

- Suitable for all kinds of ceramic raw materials & mineral grinding.
- Good hardness and low abrasion for requirement on grinding media.

## SILEX LINING BRICK



### ■ Chemical Composition and Physical Properties

SiO <sub>2</sub>	≥99.31%
Al <sub>2</sub> O <sub>3</sub>	≤0.36%
Fe <sub>2</sub> O <sub>3</sub>	≤0.018%
CaO	≤0.09%
MgO	≤0.04%
Specific weight	22.66g/cm <sup>3</sup>
Hardness mohs	≥8
Porosity	≤0.38%

### ■ Size:

Item	Type	Cylinder/Body	Sidewall
Length		200-350mm	200-350mm
Width		150-220mm	150-220mm
Height		150-180mm	110-120mm

➤ Other sizes can be available on customers' requirement.

### ■ Application

- Good hardness and economic ball mill lining brick.
- Grinding body used in ball mill, pot mill and other fine grinding plants.



## HIGH ALUMINA BALL



### Chemical Composition and Physical Properties

Al <sub>2</sub> O <sub>3</sub>	≥92%
Fe <sub>2</sub> O <sub>3</sub>	≤0.01%
Compressive strength	≥2250
Hardness mohs	≥9
Volume density	≥3.60g/cm <sup>3</sup>
Water absorptivity	<0.01%
Equivalent abrasion	≤0.01%
Color of product	White

### Size

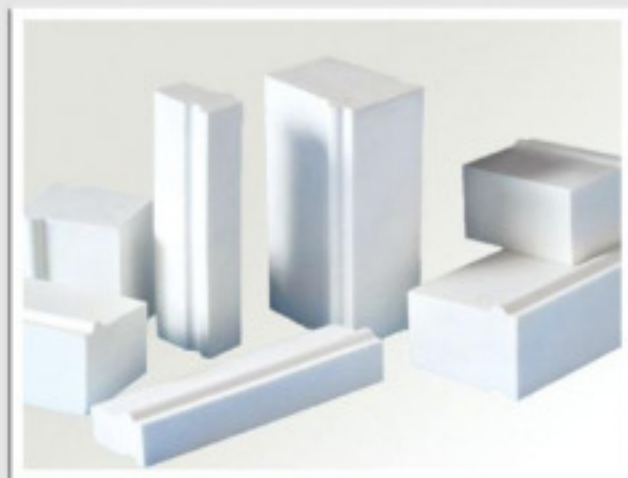
Dimension	Φ5	Φ10	Φ15	Φ20	Φ30	Φ40	Φ50	Φ60	Φ70
Dia.(mm)	5±0.5	10±0.5	15±1.0	20±1.0	30±1.5	40±1.5	50±2.0	60±2.0	70±3.0

### Application

- ▶ As a grinding media and filling material to the fine powder processing equipment.
- ▶ Widely used in ceramic industry, cement industry, mining industry, paint industry, chemical industry etc.




## ALUMINA LINING BRICK




### Chemical Composition and Physical Properties

Al <sub>2</sub> O <sub>3</sub>	≥92%
Fe <sub>2</sub> O <sub>3</sub>	≤0.01%
Compressive strength	≥2250
Hardness mohs	≥9
Volume density	≥3.60g/cm <sup>3</sup>
Water absorptivity	<0.01%
Equivalent abrasion	≤0.01%
Color of product	White

### Size

	Length	150	150	150	150	150
	Width	50	50	50	50	50
	Height	40	50	60	70	100

	Length	150	150	150	150	150	
	Width	W1	45	45	45	45	45
		W2	50	50	50	50	50
Height	40	50	60	70	100		

### Application

- High hardness and high volumetric density ball mill lining brick.
- Widely used in ceramics, glass, porcelain enamel, pigment, chemicals etc.

## MIDDLE ALUMINA BALL



### Chemical Composition and Physical Properties

Al <sub>2</sub> O <sub>3</sub>	68%-70%
Fe <sub>2</sub> O <sub>3</sub>	≤0.5%
Compressive strength	≥1600
Hardness mohs	≥8
Volume density	≥3.00g/cm <sup>3</sup>
Water absorptivity	<0.05%
Equivalent abrasion	≤0.03%
Color of product	Ivory-white

### Size

Dimension	Φ5	Φ10	Φ15	Φ20	Φ30	Φ40	Φ50	Φ60	Φ70
Dia.(mm)	5±0.5	10±0.5	15±1.0	20±1.0	30±1.5	40±1.5	50±2.0	60±2.0	70±3.0

### Application

- As a grinding media and filling material to the fine powder processing equipment.
- Widely used in ceramic industry, cement industry, mining industry, paint industry, chemical industry etc.



## HIGH ALUMINATE CEMENT



### ■ Chemical Composition

Index of inspection	Unit	CA-50 GB201-2000	A500/A600/A700	A900
Al <sub>2</sub> O <sub>3</sub>	%	≥50, <60	≥50, <60	≥52, <60
SiO <sub>2</sub>	%	≤8.0	≤8.0	≤6.0
Fe <sub>2</sub> O <sub>3</sub>	%	≤2.5	≤2.5	≤2.5
R <sub>2</sub> O(%)	%	≤0.4	≤0.4	≤0.4
S(total sulfur)	%	≤0.1	-	-
Cl	%	≤0.1	-	-

### ■ Physical Properties

Index of inspection	Unit	CA-50 GB201-2000	A500	A600	A700	A900
Fineness						
0.045mm sieve residue	%	<20	-	-	-	<20
Blaine specific surface area	m <sup>2</sup> /kg	≥300	≥300	≥300	≥300	≥400
Time of setting						
Initial setting time	h:min	≥0:30	≥0:30	≥0:30	≥0:30	≥1:00
Final setting time	h:min	≤6:00	≤6:00	≤6:00	≤6:00	≤6:00
Flexural strength						
1d	MPa	≥5.5	≥5.5	≥6	≥6.5	≥7
3d	MPa	≥6.5	≥6.5	≥7	≥7.5	≥9
Compression strength						
1d	MPa	≥40	≥40	≥45	≥52	≥72
3d	MPa	≥50	≥50	≥55	≥62	≥82

### ■ Application

- Mainly used in furnaces and thermal equipment, the chemical industry, metallurgy, ceramics and other industries.



## CALCINED KAOLIN



### ■ Chemical Composition and Physical Properties

SiO <sub>2</sub>	53.10%
Al <sub>2</sub> O <sub>3</sub>	45.62%
TiO <sub>2</sub>	0.37%
Fe <sub>2</sub> O <sub>3</sub>	0.22%
CaO	0.10%
MgO	0.34%
K <sub>2</sub> O	0.02%
Na <sub>2</sub> O	0.06%
Density	2.71g/ml
PH value	6.0-8.0
Water	0.15%
Oil absorption	56.44%

### ■ Mesh and Whiteness

Mesh	800	1000	1250	1800	2000	2500
Whiteness	85	89	90	91	92	93

### ■ Application

- Widely used in paper, paint, ceramic, rubber & plastic, cable & wire industries.





#### ■ Sidewall

$$WS = \pi R^2 H D + 1000$$

WS: weight of sidewall(kg)

R: radius of sidewall of ball mill(cm)

H: thickness of lining bricks(cm)

D: density of lining bricks(g/cm<sup>3</sup>)



#### ■ Cylinder(body)

$$WC = \pi 2R L H D + 1000$$

WC: weight of cylinder(kg)

2R: diameter of sidewall(cm)

L: length of ball mill(cm)

H: thickness of lining bricks(cm)

D: density of lining bricks(g/cm<sup>3</sup>)



#### ■ Installation

Before installation, all the partial remaining of bricks and cement on the inner surface should be thoroughly removed. The smooth surface should be made hoarse, damaged iron surface should be repaired through welding. If it is badly worn. For installation, bricks should be laid from level area of ball mill and moving upward. Finally, the ball mill should be filled with water for minimum of 10 days.

