

QINGDAO O.B.T CO.,LTD

Tel:0086-532-80997318

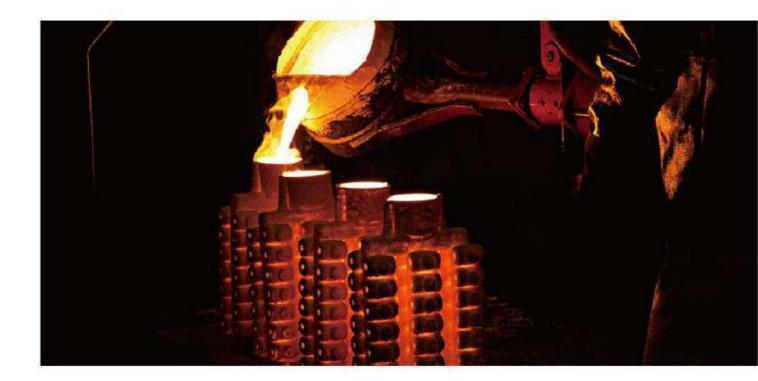
Mob/Whatsapp:0086-18661859609

Email:lisa@foundrykaolin.com

Http://www.obtcasting.com







Company Profile

OBT has been manufacturing and supplying foundry and refractory materials for more than 20 years. Our stable quality and good after-sales service help us to obtain high feedback from European, South America, Japan, Thailand, Korea, Taiwan, Vietnam, Cambodia, Philippine, Malaysia, etc.

Our product range:

Chamotte sand

Colloidal Silica

Pattern Wax

Chemical additive

Application:

Precision Investment Casting

Lost Wax Casting

Refractory Bricks Manufacturing

Coatings industry



Textile industry

Paper industry

Petroleum industry

Ceramic industry

Electronic polishing industry

Our advantage:

- --No.1 largest mullite sand and foundry materials manufacturing and supplying plant in China
- --200,000tons-500,000tons production capacity
- --8 own calcining kilns, maximum 10% cost reduction benefit to customers
- -- 5 days of the minimum delivery period
- --No dust,Low abrasion, higher hardness, uniform particle size distribution makes it the most suitable to the manufacturing process.

After 20 years of development, we have become a world renowned company which meet the needs and solves the problems of customers with foundry materials. We will focus on listening to the changing needs of customers and using the power of our core values to be better. We welcome new and old customers contact us for future business and mutual benefits.



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Chamotte Sand/Flour

Product introduction and application:

The chamotte sand has high aluminum content, low iron content, small dust, resonable particle size distribution, high bulk density, high temperature strength and low residual strength, no dust.

Available:10–16M,16–30M,30–60M,60M,70M,100M,200M,325M(can be customized). Mainly used in lost wax casting, refractory materials, precision casting, aluminum silicate refractory fiber and ceramic industry.







OBT-22S

OBT-35S

OBT-200M

		C	hamotte S	and			
The Physical And Chemical Indicators							
Grade	Fe ₂ O ₃ % max	AL ₂ 0 ₃ % min	SiO ₂ % min	TiO ₂ % max	B.Dg/ccm min	Refractoriness ℃	
A. Prime Grade	1.20	46.00	50.50	0.70	2.55	1750	
High Grade	1.50	44.00	51.50	0.90	2.53	1750	
Normal Grade	2.30	43.00	52.50	1.00	2.50	1730	
		200	0 mesh/325	mesh			
200 mesh/32		93% r	min				
		225	S(1630	mesh)			
16-12 mesh		1.18–1.70mm			25-35%		
20-16 mesh		0.85-1.18mm			40-50%		
30-20 mesh		0.60-0.85mm			<25%		
50-30 mesh		0.30-0.60mm			0.02%		
—50 mesh		0.00-0.30mm			0.04-0.06%		
		3	5S(30-60)n	nesh			
50–30 mesh		0.30-0.60mm			65-75%		
80-50 mesh		0.18-0.30mm			1.00%		
—80 me	sh	0.00-0.18mm			0.04-0.06%		



Zircon Sand

1.Product introduce and application:

Zircon sand Description:

Zircon sand, also known as zircon sand and zircon, is a mineral composed mainly of zirconium silicate (ZrSiO4). Pure zircon sand is a colorless transparent crystal. It is often dyed yellow,

orange, red, brown, etc. due to different origins and different types and types of impurities. The crystal structure is tetragonal and has a quadrangular pyramid shape. The main chemical composition is ZrO2; SiO2, and a small amount of Fe2O3, CaO, Al2O3 and other impurities. The melting point fluctuates with the impurity in 2190~2420°C.

Applications:

Foundries, Investment Casting Industries, Casting coatings. Special Refractories Industries, Refractory Castable. Ceramic Industries.

2. Characteristic:

Dense structure, High temperature resistance High thermal conductivity, Acid and alkali resistance Good stability, Low thermal expansion coefficient



OBT-ZS80-150

Fused Silica

Product introduction and application:

Fused Silica Products

Natural high purity quartz its microstructure at high temperature becomes the amorphous structure of the fused silica.

Is molten particles and silicon powder with high quality fused silica, through special crushing grinding process, the product high purity, controllable particle size distribution.

The main characteristics of fused silica are:

- High temperature resistance, good whiteness, melting point 1750 °C.
- Excellent low electrical insulation.
- High hardness, high resistance to wear.
- Low expansion coefficient is low.



• Chemical properties of stability, in addition to react with hydrogen fluoride ether and alkali, does not react with any other material.

Photovoltaic materials, electronic materials, refractory materials, investment casting, high voltage electrical insulation materials, paint coating, silicone rubber, special ceramics, advanced materials, fine chemical industry, aerospace and other industries.







OBT 0-1

OBT 100-200

OBT 50-100

Colloidal Silica

1. Product introduction and application:

Normal series of products using water glass synthesis process, with good stability, low turbidity, the advantages of small batch differences, etc.

Mainly used in precision casting, ceramic polishing, batteries, coatings and other industries. According to different particles divided into small particle size Colloidal Silica and large particle size Colloidal Silica.







OBT-830

OBT-1430

OBT-930



2. Specifications of Colloidal Silica

	Small Particle Sizes Types					
Technical Parameters	OBT-830	OBT-1430	OBT-930			
SiO ₂ %	29~31	29~31	26~28			
Particles size	7~10	10~20	10 ~ 14			
pH value (25℃)	9.0~10.5	9.0~10.5	9.5~10.8			
Viscosity (25 °C,mm2/s)	≤6.5	≤6.5	€7			
Custom-Made Product		er requirements, the p zer type and other indic lon products for you.				

Nickel Block

Material	Ni	Co	С	Si	Fe	Cu	Zn		
Purity	99.989%	0.0012	0.0016	0.0016	0.0018	0.017	0.0061	0.0001	0.0005
Material	As	Cd			Mn	Mg	Impurities		Bi
Purity	0.0005	0.00025	0.0001	0.00014	0.00045	0.00053	0.01	0.00056	0.00025

Ferro Molybdenum

		Chemic	al Elements	Contents		
Grade	Mo	Si(Max)	C(Max)	P(Max)	S(Max)	C1(Max)
FeMo60	55.0-65.5	1.0	0.10	0.05	0.10	0.5
FeMo60Cul	55.5-65.0	1.5	0.10	0.05	0.10	1.0
FeMo60Cu1.5	55.0-65.0	2.0	0.50	0.05	0.15	1.5
FeMo70	65.0-75.0	1.5	0.10	0.05	0.10	0.5
FeMo70Cul	65.0-75.0	2.0	0.10	0.05	0.10	1.0
FeMo7oCu1.5	65.0-75.0	2.5	0.10	0.10	0.20	1.5



Nickel Block



Ferro Molybdenum



Wetting Agent

Chinese name of ingredients	Concentration or concentration range (ingredient percentage)	Cas No.	
polyoxyethylene alkanes	25%-40%	9003-11-6	
polyoxyethylene ether	25%-40%	9002-92-0	
sulfonate	25%-40%	54-77-3	
AEO	25%-40%	9064-14-6	
Water	25%-40%	7732-185	



OBT-R01

Defoaming Agent

Single Product/mixture	Mixture
Organic acids (citric acid, sulfonic acid, oxalic acid, etc.)	10-35%
Inorganic	16-25%
Organic amine	1-5%
Suppress fog	1-2%
slow agent	2-4%



OB1-N02

Oxidized Glue



OBT-866

Oxidized glue ensures that the surface layer does not peel off, does not fall off, does not bulge, and does not produce cracks when wet.

Dosage: 100 kg of silica sol for the surface layer, 10 kg of oxidized gel.







Strengthening Agent

Strengthening agent: the main job is to make the expansion coefficient of the surface layer and the second layer uniform at high temperature, and the tension caused by thermal expansion and contraction, to relieve the stress caused by the impact of molten steel on the shell during the casting process.

■ Dosage of Strengthening agent: Add 10–15 kg of enhancer to 100 kg of surface powder, the enhancer can greatly save the amount of zirconium powder!



OBT-868

- Surface viscosity: No. 4 cup, 45-60 seconds, No. 5 cup, 25-28 seconds.
- The surface layer does not need to add wetting agent and Defoaming Agent.
- Subsequent grouting can be done by adding oxidized glue and reinforcement according to the normal proportion.
- This solution can change the zirconium powder particles, and the molecular coverage can be changed microscopically. Effectively prevent cracks, rat-tail lines, burrs, shell cracking, and improve collapsibility!

