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Tabular Alumina

• Brief Introduction

Tabular Alumina is a pure sintered alpha-alumina material that has been fully densified by rapid-sintering without the use of sintering aids at temperatures in excess of 1800°C. Tabular Alumina has characteristic large, well developed hexagonal tablet shaped alpha-alumina crystals of up to 200 µm length. The excellent thermal volume stability and thermal shock characteristics can be attributed to its specific microstructure: low open porosity and large crystals with closed spherical pores,which are entrapped upon re-crystallization during rapid sintering.

We offer tabular alumina size as below:
Lumps size:,0-0.5mm,0.5-1mm,1—3mm,3-5mm 5—8mm
Fine powder:180mesh 200mesh 325mesh
Customized size is available

• Advantages

We own state-of-the art facility， and annual output of 100,000 tons tabular alumina
high purity
excellent thermal volume stability and thermal shock resistance
low porosity
big crystal
high heat resistance
strong mechanical strength
high erosion resistance
excellent insulating properties
anti -acid and anti alkali corrosion

• Applications

Tabular Alumina is the aggregate of choice in unshaped and shaped high performance refractories. It is used in a variety of industries such as steel, foundry, cement, petrochemical, ceramic and waste incineration. Other common applications include its use in electrical insulators, kiln furniture and as a catalyst support. Ground Tabular is an excellent product to be used as a filler in epoxy or resin systems where high dielectric strength, thermal conductivity or abrasion resistance is desired.

• Product Data

Item	Chemical Composition					Physical Properties	
	Al2O3(%)	SiO2(%)	Fe2O3(%)	K2O(%)	Na2O(%)	Bulk Density(g/cm3)	Apparent Porosity(%)
Tabular Alumina	≥99.2	≤0.1	≤0.04	≤0.01	≤0.26	≥3.5	≤5

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White Fused Alumina

Brief Introduction

White Fused Alumina (WFA or WA) is an important raw material for advanced refractories and abrasives, a widely used raw material in refractories, ceramics shapes, grinding wheels, sandpaper, blasting media, metal preparation, laminates, coatings, lapping, polishing, grinding, and hundreds of other applications.

Available grain size

0-1mm; 1-3mm; 3-5mm; 5-8mm;Powder or as customer's requirement.

Applications

1.High hardness
2.High purity
3.Good self-sharpening
4.Strong grinding ability
5.Acid-alkali corrosion resistance
6.High temperature resistance and
7.Good thermal stability

Product Data

Color	White
Mosh hardness	9
Bulk density	1.4-2.1g/cm³
Specific gravity	3.9-4.1g/cm³
Melting point	2250℃
Maximum service temperature	1900℃

Item	Limit Value	Typical Value
Al2O3	≥99.3%	99.70%
Fe2O3	≤0.1%	0.05%
Na2O	≤0.4%	0.16%
SiO2	≤0.15%	0.02%

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Brown Fused Alumina

• Brief Introduction

Brown corundum is made of high-quality bauxite and refined in electric arc furnace at a high temperature of more than 2000 ℃. Because of its high purity, good crystallization, strong fluidity, low linear expansion coefficient and corrosion resistance, brown corundum is the best aggregate and filler for brown corundum refractories.

• Available grain size

0-1mm; 1-3mm; 3-5mm; 5-8mm;Powder or as customer's requirement.

• Applications

Mainly used for abrasion and high temperature resistant, inoxidizable aggregate and filling of shaped and monolithic refractory in steel metallurgy, various industrial stoves, electric furnace etc

• Product Data

Color	Brown
Mosh hardness	9
Specific gravity	3.9-4.1g/cm³
Melting point	1950℃
Maximum service temperature	1600℃

Item	Limit Value	Typical Value
Al2O3	≥95%	95.43%
Fe2O3	≤0.3%	0.11%
TiO2	≤3%	2.49%
SiO2	≤1.5%	1.28%

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Bauxite

• Brief Introduction

Bauxite is one of the principal ore of aluminum. Bauxite contains hydrous aluminum oxides and aluminum hydroxides, formed through the laterization of aluminous rocks in tropical and subtropical areas .
Bauxite is obtained by calcining (heating)superior grade bauxite at high temperature (from 850C to 1600C) .this can removes moisture thereby increasing the alumina content.

• Available grain size

0-1mm; 1-3mm; 3-5mm; 5-8mm;
16-30mesh; 30-60mesh; 120mesh;
200mesh; 325mesh or as customer's requirement.

• Package

1MT Jumbo bag
Standard exporting package for sea transportation or air delivery
Special packing requirement is acceptable

• Applications

1.Aluminum industry.
2.Precision casting.
3.Refractory industry.
4.Silicate acid aluminum firefibre.
5.Mixed with magnesium oxide,it can be an nice bonding agent,especially for pouring entire steel teeming ladle lining.
6.Manufacture bauxite cement,grinding abrasives.ceramic industry,and chemical industry for making aluminum compounds.

• Product Data

Item	SNR88	SNR86	SNR85
Al2O3(%)	88.0min	86.0min	85.0min
SiO2(%)	5.5max	7.0max	8.0max
Fe2O3(%)	1.6max	1.8max	2.0max
TiO2(%)	4.0max	4.0max	4.0max
CaO+MgO	0.40max	0.40max	0.40max
K2O+Na2O	0.40max	0.40max	0.40max
BD(gm/cc)	3.25min	3.20min	3.10min
Moisture	0.3max	0.3max	0.4max

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Flint Clay

The flint clay is the raw materials of refractory materials, our specifictaions standard as below:

Type	Content %		Refractoriness CN	Density g/cm3	Water Absorption %	Others
	Al2O3	Fe2O3				
LKT45	45~50	1.0 max	178	2.55 min	2.5	2.0 max
LKT44	44~50	1.3 max	176	2.50 min	2.5	2.5max
LKT43	43~50	1.5 max	176	2.45 min	3	3.0max
LKT42	42~50	2.0 max	174	2.40 min	3.5	3.5max
LKT40	40~50	2.5 max	172	2.35 min	4	3.5max
LKT35	35~42	3.5 max	168	2.30 min	4	4.0max

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Fused Magnesite

• Brief Introduction

The products is manufactured by fusion with magnesite ore as raw material,which have advantages of firm and tight structure,stability chemical properties,high strength etc.It's high class alkaline refractory material,mainly used in metallurgy,chemical,scientific&research.

• Advantages

We own state-of-the art facility， and annual output of 100,000 tons tabular alumina

1. HIGH MGO CONTENT

2. LOWER SILICA ,GOOD MATERIAL FOR REFRACTORY

3.GOOD RESISTANT TO CORROSION.

• Product Data

Brand	Specification						
	MgO	SiO2	CaO	Fe2O3	Al2O3	LOI	BD≥ (g/cm3)
	%≥	%≤	%≤	%≤	%≤	%≤	
FM-98	98	0.35	1	0.4	0.2	0.1	3.5
FM-97	97	0.6	1.2	0.7	0.2	0.2	3.5

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Dead Burned Magnesite

• Brief Introduction

Our factory produce the products of the Dead-burned magnesite are selected natural magnesite, it is produced by mine-selecting, purifying, calcimine in shaft kiln. It is an ideal material for unshaped refractory material, the final products are used in open hearth furnace, electric furnace bottom and furnace's lining tamping.

• Advantages

high temperature performance and high-density, strong anti-permeability ability and easy to rapid sintering, very thin sintered layer,good thermal shock stability, strong slag-resistance, long service life and so on.

• Product Data

Items	MgO	SiO2	CaO	LOI	Fe2O3	Al2O3	BD
DBM91	≥91%	≤4.5%	≤1.6%	≤0.3%	≤1.5%	≤1.5%	3.18g/cm3
DBM92	≥92%	≤4.0%	≤1.6%	≤0.3%	≤1.5%	≤1.5%	3.18g/cm3
DBM95	≥95%	≤1.5%	≤1.6%	≤0.15%	≤0.8%	≤0.2%	3.3g/cm3
DBM96	≥96%	≤1.2%	≤1.6%	≤0.15%	≤0.8%	≤0.2%	3.35g/cm3
DBM97	≥97%	≤1.0%	≤1%	≤0.12%	≤0.8%	≤0.15%	3.4g/cm3