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Our products include White Fused Alumina, Brown Fused Alumina, Silicon Carbide, Fused Mullite, Fused Zirconia Mullite, Bubble Alumina, Fused Spinel, Reactive Alumina, Fused Silica, Calcined Bauxite, Boron Carbide and host of other raw material. You can view our complete range of raw materials with detailed specifications below. We welcome your enquiries to offer pricing.

White Fused Alumina

The white fused alumina is in high demand in the global market. White fused alumina are composed from quality chemical by reputed manufacturers and are stringently tested at our end through sieve analysis and other tests assuring that chemicals are of accurate composition, pure and formulated correctly.

Specifications:

Grain size	Best Coarse	Coarse		Normal part		Mixed part	Fine part	
	100%pass these mesh NO.	Not pass mesh NO	Weight%short	Not pass	Weight%More than	Not pass mesh NO	Weight%More than	More than 3% pass these mash NO.
F4	5/16	31/2	20	4	40	4 5	70	6
F5	0.265	4	20	5	40	5 6	70	7
F6	31/2	5	20	6	40	6 7	70	8
F7	4	6	20	7	40	7 8	70	10
F8	5	7	20	8	45	8 10	70	12
F10	6	8	20	10	45	10 12	70	14

Brown Fused Alumina

Brown Fused Alumina is produced by fusing Calcined Bauxite in a reducing atmosphere. Brown fused alumina is widely used in high Alumina Bricks, Castables and other refractory shapes.

Physical Chemical Performance Index:

		Brown Fused Alumina (Refractory Grade)	
Index Properties		Unit	Index
Chemical Composition	Al ₂ O ₃	%	>95
	SiO ₂	%	<1.5
	Fe ₂ O ₃	%	<0.3
	Ti ₂ O	%	<3.0
	CaO	%	1
Melting Point			2050
Refractoriness			1980
True Density		g/cm ³	>3.9
Mohs hardness		-----	>9.0
Grain Size		Mm	0-1, 1-3, 3-5, 5-8
Fine Powder		Mesh	-80,100, 180, 200, 325F
Packing		25 Kg/bag 1.000kg/or according with customers' requirement	

Silicon Carbide

Black

Silicon

Carbide

Black silicon carbide is produced in an electric resistance furnace by adding Quartz and raw petroleum coke. SiC is extensively used in producing Refractory Tiles and bricks, castables as well as trough and tap hole mass.

Silicon Carbide 97 % Min (For Refractory bricks, shapes and castables)

Product	Specifications
Elements	Spec
SiC	97% Min
Free Carbon	0.5 % Max
Fe ₂ O ₃	1.0 % Max
SiO ₂	1.5% Max

Silicon Carbide 85 % Min (For tap hole clay and trough mass)

Product	Specifications
Elements	Spec
Sic	85% Min
Free Carbon	4.5 % Max
Fe2O3	4.5 % Max
SiO2	5.0% Max

Size : Lumps 0-20mm or 0-1,1-3,3-5mm

Fused Spinel

Fused spinel produced by Fusing calcined Alumina and Caustic calcined Magnesite in controlled proportions. Fused spinels are used to produce Bricks and Castables in areas where slag resistance is key.

Items		Unit	BRANDS			
			AM-70	AM-65	AM-85	AM90
Chemical Composition	Al ₂ O ₃	%	71-76	63-68	82-87	88-92
	MgO	%	22-27	31-35	12-17	8-12
	CaO ₂	%	0.65max	0.80max	0.50max	0.40max
	Fe ₂ O ₃	%	0.40max	0.40max	0.40max	0.40max
	SiO ₂	%	0.40max	0.50max	0.40max	0.25max
	NaO ₂	%	0.40max	0.50max	0.50max	0.50max

Fused Mullite

Fused Mullite is produced by fusing Calcined Alumina and Silica sand in controlled proportions to form the Mullite phase. Fused mullite bricks and shapes are extensively used in Glass making and ceramic kiln manufacturing.

tems		Unit	Index
Chemical Composition	Al ₂ O ₃	%	70.00-77.00
	SiO ₂	%	22.00-29.00
	Fe ₂ O ₃	%	0.1max
	Na ₂ O	%	0.40max

Refractoriness		1850
Bulk density	g/cm ³	3.00min
Glass Phase content	%	5-6
3Al ₂ Al ₃ 2SiO ₂ Phase	%	95min

Fused Zirconia Mullite

Fused Zirconia Mullite is produced by fusing Zircon sand and Calcined Alumina in an arc furnace. Fused Zirconia Mullite are used for producing Zirmull bricks and shapes which are used in the Glass Industry as well as an additive in Continuous casting refractories.

Items		Unit	Index
Chemical Composition	Al ₂ O ₃	%	41.00-46.00
	ZrO ₃	%	35.00-39.00
	SiO ₂	%	16.50-20.0
	Fe ₂ O ₃	%	0.2max
Bulk Density		g/cm ³	3.6min
Apparent porosity		%	3.00max
Phase	3Al ₂ O ₃ .2SiO ₂	%	50-55
	Indined ZrSiO ₄	%	30-33
	Corundum	%	5.00max
	Glass	%	5.00max

Fused Alumina Bubble

Fused Alumina Bubble is produced by blowing the melt of Calcined Alumina in a controlled atmosphere to produce hollow spheres. Due to its low density, fused alumina bubble is ideal for high alumina based Insulating Bricks and castables.

Index Properties		Guarantee value	Typical value
Chemical Composition(%)	Al ₂ O ₃	99min	99.51
	SiO ₂	0.2max	0.14
	Fe ₂ O ₃	0.1max	0.05
	Na ₂ O	0.4max	0.25
Packing density(g/cm ³)		0.5-1.0	0.74

Damaged rate(%)	<15	12
Refractoriness(^o C)	1800	
Particle Size	5-0.2mm, 0.2-1mm,1-3mm,3-5mm	
Test standard	GB/T3044-89	
Packing	20kg/plastic bag(Dampproof)	
Usage	Refractories	

Calcined Bauxite

Calcined Bauxite is produced by calcining raw bauxite in a rotary, shaft or round Kiln. Calcined Bauxite is a major ingredient in making various types of Alumina Bricks and castables.

RKB 85: Al₂O₃:85%(min)

- Fe₂O₃:2%(max)
- TiO₂:0.4%(max)
- CaO:0.4%(max)
- MgO:0.3%(max)
- B.D.(g/cm³):3.0(min)

RKB 86: Al₂O₃:86%(min)

- Fe₂O₃:1.8(max)
- TiO₂:0.4%(max)
- CaO:0.4%(max)
- MgO:0.3%(max)
- B.D.(g/cm³):3.1(min)

RKB 88: Al₂O₃:88%(min)

- Fe₂O₃:1.6%(max)
- TiO₂:0.4%(max)
- CaO:0.4%(max)
- MgO:0.3%(max)
- B.D.(g/cm³):3.2(min)

RKB 90: Al₂O₃:90%(min)

- Fe₂O₃:1.6%(max)
- TiO₂:0.4%(max)
- CaO:0.4%(max)
- MgO:0.3%(max)
- B.D.(g/cm³):3.3(min)

Fused Silica

Fused Silica is produced by fusing high purity silica in a special furnace. Fused Silica is used in refractories as an additive for continuous casting refractories.

Item	Fused Silica				
	Fused Silica Block	Fused Silica Sand	Fused Silica Powder	Crystal Silica	Cristobalite Silica Powder
SiO ₂	99.90%	99.90%	99.80%	99.60%	99.5%min
Al ₂ O ₃	30ppm	30ppm	0.20%	0.30%	0.25%max
Fe ₂ O ₃	20ppm	30ppm	0.01%	0.03%	0.035%max
	Na 11ppm	Na 11ppm	Ti ₂ O 0.001%	Ti ₂ O 0.01%	Ti ₂ O 0.01%max K ₂ O 0.06%max CaO 0.001%max
L.O.I.	0.15%0.15%	0.15%	0.15%	0.15%	0.15%max
Density	2	2	2	2.65	2.25-2.45
Mohs Hardness	7	7	6	7	6.5-7.5
Size	1-100mm	0.1-15mm	200-2000meshs	200-2000meshs	FG-300,600,900

Boron Carbide

Boron carbide is a key ingredient for producing con cast refractories. It is a multipurpose abrasive and lapping agent with chemical resistance and hardness similar to diamond. These are offered by us in different grain sizes and purities to suit the diverse requirements of clients.

Brands	B(%)	C(%)	Fe ₂ O ₃ (%)	Si(%)	B ₄ C
F-12---F150	77-80	17-19	0.25-0.45	0.2-0.4	96-98
F180F240	76-79	17-19	0.25-0.45	0.2-0.4	95-97
F280F400	75-79	17-20	0.3-0.6	0.3-0.8	93-97
F500F800	74-78	17-20	0.4-0.8	0.4-1.0	90-94
F1000-F1200	73-77	17-20	0.5-1.0	0.4-1.0	89-92
60 150 mesh	76-80	18-21	0.3max	0.5max	95-98
-100mesh	75-79	17-22	0.3max	0.5max	94-97
-200mesh	74-79	17-22	0.3max	0.5max	94-97
-325mesh	73-78	19-22	0.5max	0.5max	93-97
-25micron	73-78	19-22	0.5max	0.5max	91-95
10micron	72-76	18-21	0.5max	0.5max	90-92

Fused Alumina Zirconia Silica

Fused Alumina Zirconia Silica is produced by cleaning and crushing fused electrocast blocks. This material has nil porosity, high density and good refractoriness. It is a cost effective raw material for use in Castables and Zirconia based Refractory products.

Specifications:

- Bulk Density: 1.80 Gm/CC Min
- Specific Gravity <>50 Kg HDPE Bag
- Porosity : Nil
- Sizes: 0-1,1-3,3-5mm
- Packing: 50 Kg HDPE Bags

Chemical Specifications:

Elements	Composition
Zirconia	33-36%
Alumina	50% Min
SiO ₂	12-16%

Calcined Alumina

We offer a wide range of Calcined alumina and Reactive alumina which are key ingredients for castables as well as special alumina refractories. These aluminas have usage in special ceramics as well.

Calcined Alumina for Refractories and Ceramic Alpha Alumina and Alumina Micropowders

Elements	Index	B2L-06DCT-3000SG			B2M-12DCTC40			B2M-4DCT800SG		
		Typical	Min	Max	Typical	Min	Max	Typical	Min	Max
AL ₂ O ₃	%	99.53	99	99.6	99.46	99	99.7	99.47	99	99.65
SiO ₂	%	0.01		0.15	0.06		0.15	0.04		0.15
Na ₂ O	%	0.05		0.1	0.16		0.15	0.04		0.15
Fe ₂ O ₃	%	0.04		0.1	0.04		0.1	0.04		0.1
True density		3.94	3.93		3.94		3.93	3.96	3.95	
Specific surface area	M ₂ g	1.3	1	1.5	1.15	0.9	1.5	0.56	0.5	0.8
D ₅₀ laser		1.05	0.88	1.2	1.26	1	1.6	3.5	3	5
D ₅₀ sedimentaion		0.75	0.6	0.9						

Elements	Index	B2M-20D CTC-20			SB6CL370C		
		Typical	Min	Max	Typical	Min	Max
AL ₂ O ₃	%	99.3	99	99.6	99.4	99	99.6
SiO ₂	%	0.08	0.05	0.2	0.07	0.06	0.2
Na ₂ O	%	0.12	0.1	0.15	0.25	0.2	0.1

Fe2O3	%	0.04	0.02	0.1	0.04	0.02	0.1
True density		3.95	3.93	3.96	3.94	3.93	3.96
Specific surface area	M2g	0.8	0.7	1.2	0.6	0.5	1
D50 laser		1.9	1.5	2.5	2.04	1.8	2.5
D50sedimentaion							

White Tabular Alumina

White Tabular Alumina is produced by sintering high purity calcined alumina in a special kiln, Due to its superior physical and thermal properties, WTA is a ket ingredient in all alumina based Refractory Bricks and castables.

Tabular Alumina			
Physical Chemical Performance Index:			
Properties index		Tabular Alumina	
		Unit	Index
Chemical Composition	Al2O3	%	>99
	SiO2	%	<0.25
	Fe2O3	%	<0.10
	Na2O	%	<0.40
Bluk Density		G/cm2	>3.50
Absorbing Water Rate		%	<1.5
Porosity Rate		%	<5.0
Grain Size		mm	0-1, 1-3, 3-5
Fine Powder		mesh	-80, 120, 180, 220, 325F

Sintered Mullite And Spinel

Sintered Mullite And Spinel are produced by sintering calcined alumina and silica and magnesia in a special kiln, Both these Sintered Mullite And Spinel are used to manufacture special refractory shapes.

Chemistry Component	Physics Chemistry
AL2O3	60-62
SiO2	36-38
Fe2O3	<0.8
K2O	<0.3
Volume density	>2.65
Chemistry component	Physics chemistry
AL2O3	70-72
SiO2	26-28
Fe2O3	<1

K ₂ O	<0.2
Na ₂ O	<0.06
Volume density	>2.83

Calcium Aluminate Cement

Calcium aluminate cement is a key ingredient used in the manufacturing of refractory castables. Sourced from well known vendors of the market, this cement also find application in industrial flooring products, chemical resistant mortars & concretes, sewer applications, floor screeds, tile adhesives and various others.

Reactive Alumina and Alumina Micropowders

Elements	Index	B2L-06DCT-3000SG			B2M-12DCTC40			B2M-4DCT800SG		
		Typical	Min	Max	Typical	Min	Max	Typical	Min	Max
AL ₂ O ₃	%	99.53	99.0	99.60	99.46	99	99.7	99.47	99	99.65
SiO ₂	%	0.06		0.15	0.06		0.15	0.04		0.15
Na ₂ O	%	0.05		0.10	0.16		0.30	0.25		0.25
Fe ₂ O ₃	%	0.04		0.10	0.04		0.10	0.04		0.10
True density		3.94	3.93		3.94		3.93	3.96	3.95	
Specific surface area	M ² g	1.3	1.0	1.5	1.15	0.9	1.5	0.56	0.50	0.8
D50 laser		1.05	0.88	1.20	1.26	1.0	1.60	3.5	3.0	5.0