

## TECHNICAL DATA

**ORIGIN: CHINA**

### ALUMINATE CEMENT

**GRADE : A-500 CA 50 G9**

*SPECIFICATIONS :*

<i>AL<sub>2</sub>O<sub>3</sub> (MIN)</i>	<i>:</i>	<i>52.00%</i>	<i>54.00%</i>
<i>SIO<sub>2</sub> (MAX)</i>	<i>:</i>	<i>7.50%</i>	<i>6.00%</i>
<i>FE<sub>2</sub>O<sub>3</sub> (MAX)</i>	<i>:</i>	<i>2.50%</i>	<i>2.50%</i>
<i>CAO (MIN)</i>	<i>:</i>	<i>32.0%</i>	<i>32.0%</i>

#### **PHYSICAL PROPERTIES**

*SETTING TIME (H:M)*

<i>INITIAL (MIN)</i>	<i>:</i>	<i>0:30</i>	<i>1:30</i>
<i>FINAL (MAX)</i>	<i>:</i>	<i>6:0</i>	<i>6:0</i>

*FLEXURAL STRENGTH*

<i>DAY 1 (MPA MIN)</i>	<i>:</i>	<i>5.0</i>	<i>8.0</i>
<i>DAY 3 (MPA MIN)</i>	<i>:</i>	<i>6.0</i>	<i>10.0</i>

*COMPRESIVE STRENGTH*

<i>DAY 1 (MPA MIN)</i>	<i>:</i>	<i>50.0</i>	<i>70.0</i>
<i>DAY 3 (MPA MIN)</i>	<i>:</i>	<i>60.0</i>	<i>80.0</i>

**PACKING: 25KG PAPER BAGS ON PALLETS SHRUNK WRAPPED & CONTAINERIZED SHIPMENT.**

# TECHNICAL DATA

## DEAD BURNT MAGNESITE

ORIGIN: CHINA

Grades	MgO	SiO <sub>2</sub>	CaO	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	B.D	L.O.I
	Min	Max	Max	Max	Max	Min	Max
DBM 90	90.00	4.50	2.50	1.50	1.50	3.15	0.50
DBM 92	92.00	4.00	2.50	1.50	1.50	3.15	0.50
DBM 94	94.00	2.50	2.20	1.50	1.50	3.20	0.35
DBM 95	95.00	2.20	1.60	1.00	1.00	3.20	0.30
DBM 97	97.00	0.70	1.40	0.70	0.30	3.28	0.30
DBM 97.3	97.30	0.65	1.40	0.65	0.20	3.28	0.30

Size : 0-3 mm, 0-6 mm, 0-10 mm, 0-15 mm, 3-15 mm  
0-30 mm, 200 mesh or as per requirement

Packing : In 1MT Big Bags or Loose In bulk (As per customer's requirement)

# TECHNICAL DATA

## FUSED MAGNESITE

ORIGIN: CHINA

Grades	MgO		SiO <sub>2</sub>	CaO	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	B.D	L.O.I
	Min	Max		Max	Max	Max	Min	Max
FM96	96.00		0.90	2.20	0.90	0.30	3.40	0.30
FM 97	97.00		1.20	1.30	0.70	0.20	3.50	0.20
FM 98	98.00		0.70	0.80	0.50	0.20	3.50	0.20
FM 97 (CaO/Sio2 2:1)	97.00		0.65	1.40	0.60	0.20	3.50	0.20
FM 98 (CaO/Sio2 2:1)	98.00		0.40	1.00	0.40	0.15	3.50	0.20
FM 98.5	98.50		0.35	1.00	0.35	0.10	3.50	0.10
FM 99	99.00		0.20	0.60	0.25	0.10	3.50	0.10

Size : 0-1 mm, 1-3 mm, 3-5 mm, 0-10 mm, 0-30 mm 0-40 mm, 0-60 mm or as per requirement.

Packing : In 1MT Big Bags or Loose In bulk (As per customer's requirement)

# TECHNICAL DATA

## FUSED ALUMINA

ORIGIN: CHINA

	BFA 95	BFA 97	SWFA	WFA
Spec	Min/Max	Min/Max	Min/ Max	Min/ Max
Al <sub>2</sub> O <sub>3</sub>	95.00%	97.00%	98.00%	99.00%
FE <sub>2</sub> O <sub>3</sub>	0.50%	0.30%	0.30%	0.10%
TIO <sub>2</sub>	3.50%	2.00%	1.00%	0.10%
SIO <sub>2</sub>	1.20%	0.80%	0.60%	0.20%
B.D.	3.7G/CCM	3.7G/CCM	3.8G/CCM	3.8G/CCM

Size: Standard Size: 0-1mm/1-3mm/3-5mm/5-8mm  
Grit size from 10# to 320#. Other sizes available upon customer's request

Packing: Standard Packing: 1mt super sacks or 25Kg/ 50Kg big bags in 1 MT super sacks.  
Other Packing available upon request.

## CALCINED BAUXITE

ORIGIN: CHINA

Grades	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Tio <sub>2</sub>	K <sub>2</sub> O+Na <sub>2</sub> O	B.D
	Min%	Max%	Max%	Max%	Max%	Min%
Shaft Kiln	86.00	6.00	1.80	4.00	0.25	3.10
Rotary Kiln I	88.00	6.00	1.50	4.00	0.25	3.25
Rotary Kiln II	87.00	7.00	2.00	4.50	0.25	3.20
Rotary Kiln III	87.00	6.00	1.80	4.00	0.25	3.20
Round Kiln I	88.00	6.00	1.80	4.00	0.25	3.30
Round Kiln II	87.00	7.00	2.00	4.50	0.25	3.20

Size : In Lumps : 0-30 mm, 0-50 mm  
In Grits : 0-1mm, 1-3 mm, 3-5mm or as per requirement.

Packing : In 1MT Big Bags (As per customer's requirement)

## TECHNICAL DATA

### FLAKE GRAPHITE

ORIGIN: CHINA

	Spec		Size
	FC	H <sub>2</sub> O	+100Mesh 80% Min
+198	98	0.5%	
+197	97		
+195	95		
+194	94		
+192	92		
+895	95		

+894	94		
+594	94		+50 Mesh 80% Min
+592	92		
-198	98		-100 Mesh 80% Min
-197	97		
-195	95		
-194	94		
-190	90		
-185	85		
-290	90		-200Mesh 90% Min
-285	85		

Packing: In 1 Mt / 25 kg / 50 kg bags or as per buyer's requirements.

## TECHNICAL DATA

SILICON CARBIDE

ORIGIN: CHINA

Grade	SIZE					
	1-3 / 3-5 / 5-8 MM		200 #		325 #	
Sic % Min	Fe <sub>2</sub> O <sub>3</sub> % Max	Free Carbide % Max	Fe <sub>2</sub> O <sub>3</sub> % Max	Free Carbide % Max	Fe <sub>2</sub> O <sub>3</sub> % Max	Free Carbide % Max
98	0.4	0.35	0.6	0.35	0.7	0.35
97	0.5	0.5	0.8	0.5	0.9	0.5

96	0.8	0.8	1.0	0.8	1.2	0.8
95	1.2	1.0	1.2	1.0	1.5	1.0
90	2.0	2.5	2.5	2.5	2.5	2.5
88	2.5	3.5	3.0	3.5	3.0	3.5
85	3.5	6.0	4.0	6.0	3.5	6.0
75	5.0	7.0	5.0	7.0	6.0	7.0
70	6.0	8.0	6.0	8.0	7.0	8.0

Any other specifications / sizes can be provided as per requirements.

Packing: In 1MT big bags or other as per buyer's requirements,

## TECHNICAL DATA

### FLINT CLAY

ORIGIN: CHINA

	Grade 1	Grade 2
Spec.	Min/Max	Min/ Max
Al <sub>2</sub> O <sub>3</sub>	45.00%	45.00%
Fe <sub>2</sub> O <sub>3</sub>	1.20%	1.50%
B.D.	2.50G/CCM	2.53G/CCM

Size: Standard - 0-50mm/0-25mm, 0-1mm/1-3mm/3-5mm, -100mesh/-200mesh.  
Other Sizes available upon customer's request.

Packing: Standard Packing: Lump sizes in bulk, split sizes and mill sizes in 1mt  
Super sacks Other Packing available upon Customer's request.

CALCINED KAOLIN

ORIGIN: CHINA

	Grade 1	Grade 2
Specs	Min/ Max	Min / Max
Al <sub>2</sub> O <sub>3</sub>	45.00%	44.00%
Fe <sub>2</sub> O <sub>3</sub>	0.50%	0.80%
B.D	2.5G/CCM	2.45G/CCM

Size: Standard Size: 0-50mm/0-25mm,0-1mm/1-3mm/3-5mm, -100 mesh/  
-200 mesh. Other Sizes available upon customer's request.

Packing: Standard Packing: Lump sizes in bulk , split sizes and mill sizes in 1mt

# TECHNICAL DATA

## MULLITE

ORIGIN: CHINA

	M-45	M-47	M-60		M-70
Spec	Min/Max	Min/Max	Min/Max	Min/Max	Min/ Max
Al <sub>2</sub> O <sub>3</sub>	46.00%	47.00%	60.00%	60.00%	70.00%
SiO <sub>2</sub>	50.00%	50.00%	38.00%	35.00%	28.00%
Fe <sub>2</sub> O <sub>3</sub>	1.50%	1.00%	1.35%	1.00%	1.20%
TiO <sub>2</sub>	1.00%	0.90%	2.00%	2.00%	2.70%
K <sub>2</sub> O+Na <sub>2</sub> O	0.20%	0.20%	0.30%	0.20%	0.20%
CaO+MgO	0.45%	0.35%	0.30%	0.30%	0.30%
A.P	2.00%	2.00%	2.10%	5.00%	4.00%
REFRACTORINESS	1770°C	1770°C	1790°C	1750°C	1790°C
B.D. (G/CCM)	2.60	2.64	2.75	2.70	2.80
MULLITE PHASE	65%	65%	78%	80%	85%

Size: Standard Size: 0-50mm/ 0-25mm, 0-1mm/1-3mm/3-5mm, -100mesh/-200mesh. Other Sizes available upon customer's request.

Packing: Standard Packing: Lumps sizes in bulk, split sizes and mill sizes in 1mt Super sacks. Other packing available upon customer's request.

# TECHNICAL DATA

## GREEN CHROMIUM OXIDE

ORIGIN: CHINA

SPECS	MIN/ MAX
Cr <sub>2</sub> O <sub>3</sub>	99% Min
SiO <sub>2</sub>	0.2% Max
Fe <sub>2</sub> O <sub>3</sub>	0.03% Max
P	0.005% Max
Co	0.001% Max
Mn	0.001% Max
Cu	0.001% Max
SO <sub>4</sub>	0.4% Max
LOI	0.3% Max
Size	-325 Mesh
Water Soluble	0.5% Max
Oil Absorption	15-25 g/100g
Tinting Strength	100 (±) 5%
Shade	15g/M <sup>2</sup>

## CINDER BALLS

ORIGIN: CHINA

Specs	Min/ Max
MgO	60% Min
SiO <sub>2</sub>	2.5% Max
CaO	2.5% Max
Cr <sub>2</sub> O <sub>3</sub>	3% Max
LOI + H <sub>2</sub> O	30%Max
Grain Size	10=40 mm

## TECHNICAL DATA

### FUSED MAGNESIA CHROME

ORIGIN: CHINA

SPECS	MIN/MAX
MgO	57% MIN
Cr <sub>2</sub> O <sub>3</sub>	19% MIN
CaO	3% MAX
SiO <sub>2</sub>	1% MAX
Fe <sub>2</sub> O <sub>3</sub>	11% MAX
Al <sub>2</sub> O <sub>3</sub>	8% MAX
B.D	3.5 g/ccm MIN
SIZE	0-50mm or as per requirement
Packing	In 1MT big bags or as per requirement

### Magnesite Bricks OR Refractory Bricks (Grog)

ORIGIN: CHINA

SPECS	MIN/ MAX
MgO	90% Min
SiO <sub>2</sub>	5.0% Max
Fe <sub>2</sub> O <sub>3</sub>	1.8% Max
CAO	2.5% Max
Al <sub>2</sub> O <sub>3</sub>	1.5% Max
LOI	0.5% Max
B.D.	2.90 - 3.0 g/ccm

Packing: In about 1.6MT shrink wrapped on pallets.

**Origin: Saudi Arabia**

**Material: DBM 94, DBM 96.**

Chemical and Physical Analysis								
Product Name	MgO	CaO	SiO2	Fe2O3	Al2O3	LOI	BD	Size:
DBM	Min %	Max %	Max %	Max %	Max %	Max %	Min g/cm3	mm
MgO D96CR	96	3.5	0.8	0.04	0.3	0.3	3.17	0-40
MgO D94CR	94	4	1.0	0.04	0.3	0.3	3.10	0-40

**Caustic Calcined Magnesia – MgO C96 CR,**

Specification:

MgO : Min 96.00%

CaO : Max 2.50%

SiO2 : Max 1.50%

Fe2O3 : Max 0.20%

Al2O3 : Max 0.40%

Loss on ignition: Max 3.50%

Size : 0-10 MM