

Aluminas

Al98BA

ALUMINAS

- Al98BA is sintered beta phase Alumina material with typical Al_2O_3 content of 98% min.



Remarks

Al98BA is sintered beta phase Alumina material with typical Al₂O₃ content of 98% min.

Sizing

0-30 mm.

SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C		~2 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	98.50	97.5	99.00
TiO ₂	0.60	0.5	0.70
SiO ₂	0.30	0.2	0.40
CaO	0.15	0.1	0.25
Na ₂ O	0.10	0.05	0.20
Fe ₂ O ₃	0.02	0.01	0.10

Al98

ALUMINAS

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Al98 is a fired smelter grade Alumina material with Al_2O_3 98% minimum and Na_2O typically ranging between 1 - 1.5% max. Material comes in the form of fine beige to white colored powder and particle sizing 100% pass 200 mesh.



Remarks

AI98 is a fired smelter grade Alumina material with Al₂O₃ 98% minimum and Na₂O typically ranging between 1 - 1.5% max. Material comes in the form of fine beige to white colored powder and particle sizing 100% pass 200 mesh.

Sizing

pass 200 mesh.

FIRED (PROCESS)	COLOURATION	BULK DENSITY
900 C		2.2 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	98.00	97	98.50
LOI 1025°C	5.00	3	7.00
Na ₂ O	1.30	0.6	1.50
Moisture	1.00	0.5	2.00
SO ₃	0.15	0.05	0.25
K ₂ O	0.10	0.05	0.20
Fe ₂ O ₃	0.05	0.01	0.10
SiO ₂	0.05	0.01	0.10
ZrO ₂	0.03	0.01	0.05
CaO	0.03	0.01	0.05
NiO	0.01	0.001	0.02

Al97

ALUMINAS

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Al97 is smelter grade Alumina pre-mixed with Cryolite through firing process and with typical Al_2O_3 content of 97%, F content 1.3% and Na_2O_3 0.9%. It comes in the fine powder form in particle size of 100% pass 200 mesh.



Remarks

AI97 is smelter grade Alumina pre-mixed with Cryolite through firing process and with typical Al₂O₃ content of 97%, F content 1.3% and Na₂O₃ 0.9%. It comes in the fine powder form in particle size of 100% pass 200 mesh.

Sizing

pass 200 mesh.

FIRED (PROCESS)	COLOURATION	BULK DENSITY
900 C		2.2 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	95.00	92	97.00
LOI 1025°C	6.00	5	7.00
F	1.30	1	1.70
Na ₂ O	0.75	0.5	1.50
Moisture	0.50	0.1	1.00
SiO ₂	0.25	0.1	0.45
Fe ₂ O ₃	0.15	0.1	0.20
CaO	0.10	0.05	0.15
TiO ₂	0.07	0.05	0.15

Al94

ALUMINAS

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Al94 is Alumina based fused material with typical Al_2O_3 content ranging around 94%. Material excels with high bulk density and higher melting point to other comparable raws.




Remarks

AI94 is Alumina based fused material with typical Al_2O_3 content ranging around 94%. Material excels with high bulk density and higher melting point to other comparable raws.

Sizing

Lumpy material 0 - 30 cm

- (PROCESS)	COLOURATION	BULK DENSITY
-		$\sim 3.30.9\text{g/cm}^3$

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al_2O_3	94.00	92	96.00
Fe_2O_3	1.00	0.5	1.50
SiO_2	1.00	0.5	1.50
ZrO_2	1.00	0.5	1.50
TiO_2	0.65	0.50	0.90
Na_2O	0.10	0.05	0.20
K_2O	0.10	0.05	0.20

Al94G

ALUMINAS

- Al94G is fused Alumina material with typical Al_2O_3 content of 94%.




Remarks

Al94G is fused Alumina material with typical Al₂O₃ content of 94%.

Sizing

0-1; 1-3; 3-5 mm.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~3.3 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	94.00	92	96.00
SiO ₂	1.00	0.5	1.50
Fe ₂ O ₃	1.00	0.5	1.50
ZrO ₂	1.00	0.5	1.50
TiO ₂	0.65	0.5	0.80
Na ₂ O	0.10	0.05	0.20
K ₂ O	0.10	0.05	0.20
Free Fe	0.10	0.05	0.15

CAI98F

ALUMINAS



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CAI98F is fine Calcined Alumina base material with moisture content of 12% and balance of Calcined Alumina with typical content of 98%.



Remarks

CAI98F is fine Calcined Alumina base material with moisture content of 12% and balance of Calcined Alumina with typical content of 98%.

CALCINED (PROCESS)	COLOURATION	BULK DENSITY
1100 C	 	2.2 0.9g/cm ³

Chemical Composition & Physical Analysis

Aluminas

VS77

ALUMINAS



0



Remarks

0

-(PROCESS)	COLOURATION	BULK DENSITY
-	●	0.9g/cm ³

Chemical Composition & Physical Analysis

Aluminas

WFA97

ALUMINAS

- WFA97 is white fused Alumina based material with typical Alumina content of 97%.




Remarks

WFA97 is white fused Alumina based material with typical Alumina content of 97%.

Sizing

fine powder -200 mesh

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~2.50.9g/cm ³

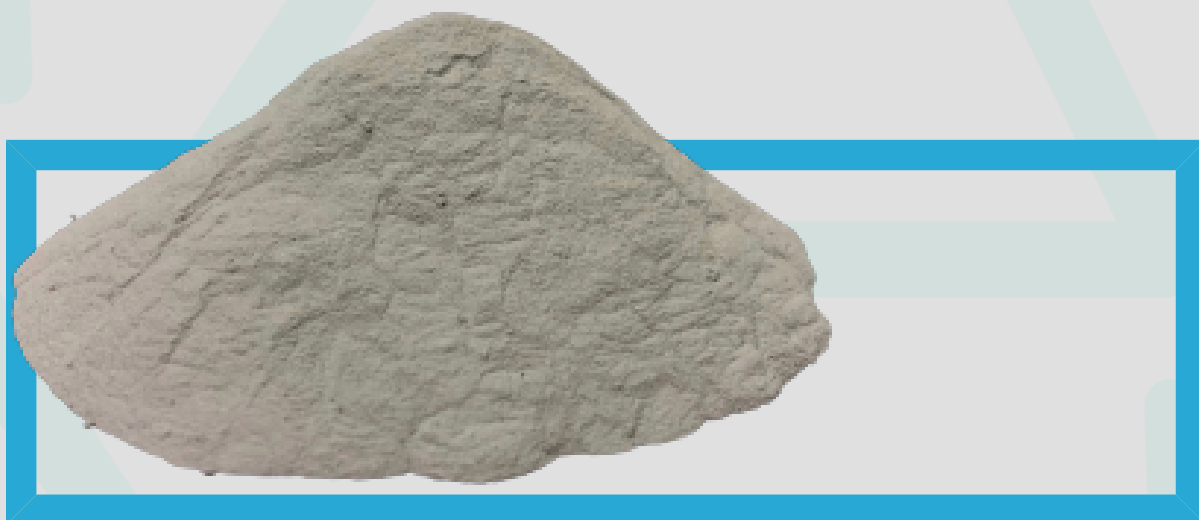
Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	97.00	96	98.00
Fe ₂ O ₃	0.34	0.3	0.40
WO ₃	0.34	0.3	0.40
Na ₂ O	0.24	0.2	0.30
SiO ₂	0.15	0.1	0.20

WFAF98


ALUMINAS

- WFAF98 is fine white fused Alumina base material with typical Alumina content of 98% and guaranteed content of 97% minimum.



Remarks

WFAF98 is fine white fused Alumina base material with typical Alumina content of 98% and guaranteed content of 97% minimum.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		2.5 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	98.00	97	99.00
WO ₃	0.80	0.3	1.00
SiO ₂	0.50	0.3	0.80
Fe ₂ O ₃	0.35	0.2	0.60
Na ₂ O	0.25	0.10	0.40
Co ₂ O ₃	0.20	0.1	0.30
CaO	0.20	0.1	0.40

BFAF96

ALUMINAS

- || BFAF96 is a fine brown fused Alumina based material with typical Alumina content of 97% and guaranteed minimum content of 96%.




BFAF96

ALUMINAS

Remarks

BFAF96 is a fine brown fused Alumina based material with typical Alumina content of 97% and guaranteed minimum content of 96%.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		2.30.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	98.00	96	99.00
SiO ₂	0.45	0.3	0.60
Na ₂ O	0.30	0.2	0.50
Fe ₂ O ₃	0.20	0.1	0.40
CaO	0.10	0.05	0.30

AlphaBeta94

ALUMINAS



AlphaBeta94 is Alpha-Beta crystalline phase material with typical Al_2O_3 of 93% and Na_2O of 4%.




AlphaBeta94

ALUMINAS

Remarks

AlphaBeta94 is Alpha-Beta crystalline phase material with typical Al_2O_3 of 93% and Na_2O of 4%.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		2.2 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al_2O_3	92.00	90	94.00
SiO_2	4.50	3	5.50
Na_2O	3.80	3	4.50
CaO	0.50	0.3	0.80
Fe_2O_3	0.05	0.02	0.10

AlphaBeta94G

ALUMINAS



AlphaBeta94G is Alpha Beta phase Alumina base material with typical Al_2O_3 content of 94% and Na_2O content of around 4%.



AlphaBeta94G


ALUMINAS

Remarks

AlphaBeta94G is Alpha Beta phase Alumina base material with typical Al_2O_3 content of 94% and Na_2O content of around 4%.

Sizing

0-1 mm; 1-3 mm; 3-5 mm

- (PROCESS)	COLOURATION	BULK DENSITY
-		2.2 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al_2O_3	94.00	90	96.00
Na_2O	4.00	3	5.00
SiO_2	1.00	0.5	3.00
CaO	0.50	0.1	0.70
MgO	0.20	0.1	0.35
K_2O	0.08	0.03	0.20
Fe_2O_3	0.05	0.02	0.15
TiO_2	0.03	0.01	0.10

CAST A

ALUMINAS

- ■ CAST A is lumpy white fused Alumina based material with typical Alumina content of 87%.




Remarks

CAST A is lumpy white fused Alumina based material with typical Alumina content of 87%.

Sizing

lumps 0-20 cm

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~2.09g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	88.02	87	89.00
MgO	5.34	5.2	5.41
CaO	3.08	3	3.20
Na ₂ O	0.39	0.3	0.40
SiO ₂	0.21	0.15	0.30

CAST B

ALUMINAS

- || CAST B is a lumpy mix of white fused Alumina materials with typical Alumina content of 90%




Remarks

CAST B is a lumpy mix of white fused Alumina materials with typical Alumina content of 90%

Sizing

lumps 0-20 cm

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~2.09g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	90.00	89	91.00
CaO	2.40	1.2	3.60
MgO	2.30	1.15	3.45
SiO ₂	0.40	0.2	0.60
Na ₂ O	0.35	0.17	0.50
Fe ₂ O ₃	0.20	0.1	0.30

Aluminas

SAG77G

ALUMINAS

- ■ SAG77G is sintered mullite based material with typical Al_2O_3 content of 77%.



Remarks

SAG77G is sintered mullite based material with typical Al₂O₃ content of 77%.

Sizing

Crushed to typical size 0-1mm

SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C		2.20.9g/cm ³

Chemical Composition & Physical Analysis

SAI94

ALUMINAS

”

SAI94 is a lumpy sintered Alumina material with typical Al_2O_3 content of 96% and with guaranteed content of 94% minimum.




Remarks

SAI94 is a lumpy sintered Alumina material with typical Al₂O₃ content of 96% and with guaranteed content of 94% minimum.

Sizing

Round strips in sizing of 0 to 30 cm maximum.

SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C		2.3 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	96.00	94	97.00
SiO ₂	2.00	1.5	2.50
ZrO ₂	0.70	0.5	1.00
BaO	0.70	0.5	1.00
MgO	0.30	0.1	0.50
CaO	0.25	0.1	0.35
Fe ₂ O ₃	0.08	0.05	0.20
K ₂ O	0.05	0.01	0.15
Ga ₂ O ₃	0.01	0.005	0.05

SAI99

ALUMINAS

”

SAI99 is a lumpy sintered Alumina material with typical Alumina content of 99% and with guaranteed content of 98%.



Remarks

SAI99 is a lumpy sintered Alumina material with typical Alumina content of 99% and with guaranteed content of 98%.

Sizing

Randomly sized lumps 0 - 30 cm.

SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C		2.6 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	99.30	98.5	99.50
MgO	0.30	0.2	0.40
Fe ₂ O ₃	0.10	0.05	0.20

SML70

ALUMINAS

- ■ SML70 is sintered mullite material with typical Al_2O_3 content around 70%.



Remarks

SML70 is sintered mullite material with typical Al₂O₃ content around 70%.

Sizing

Lumps: 0-25 cm; Crushed to sizes: 0-1; 1-3; 3-5 mm

SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C		~ 2.35 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	70.00	69	71.50
SiO ₂	27.00	24.5	28.50
Fe ₂ O ₃	0.50	0.3	0.70
Na ₂ O	0.30	0.1	0.60
K ₂ O	0.30	0.1	0.60
TiO ₂	0.25	0.1	0.45
CaO	0.15	0.1	0.30
MgO	0.07	0.05	0.10
ZrO ₂	0.02	0.01	0.05

Aluminas

AL90SL

ALUMINAS

”

AL90SL is a mixture of Calcined and Fused Alumina powder of typical Al_2O_3 minimum content of 90% min.



Remarks

AL90SL is a mixture of Calcined and Fused Alumina powder of typical Al₂O₃ minimum content of 90% min.

Sizing

75% minimum of particles passing 200 mesh. Max 25% oversize.

CALCINED (PROCESS)	COLOURATION	BULK DENSITY
1100 C		2.5 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
AlO ₃	92.00	90	93.00
SiO ₂	3.00	1.00	4.00
Moisture	2.50	1.00	3.00
ZrO ₂	2.00	1.00	3.00
Fe ₂ O ₃	0.30	0.10	0.50

Aluminas

SML70G

ALUMINAS

- ■ SML70G is sintered mullite material with typical Al_2O_3 content around 70%.




Remarks

SML70G is sintered mullite material with typical Al₂O₃ content around 70%.

Sizing

0-1 mm

SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C		0.9g/cm ³

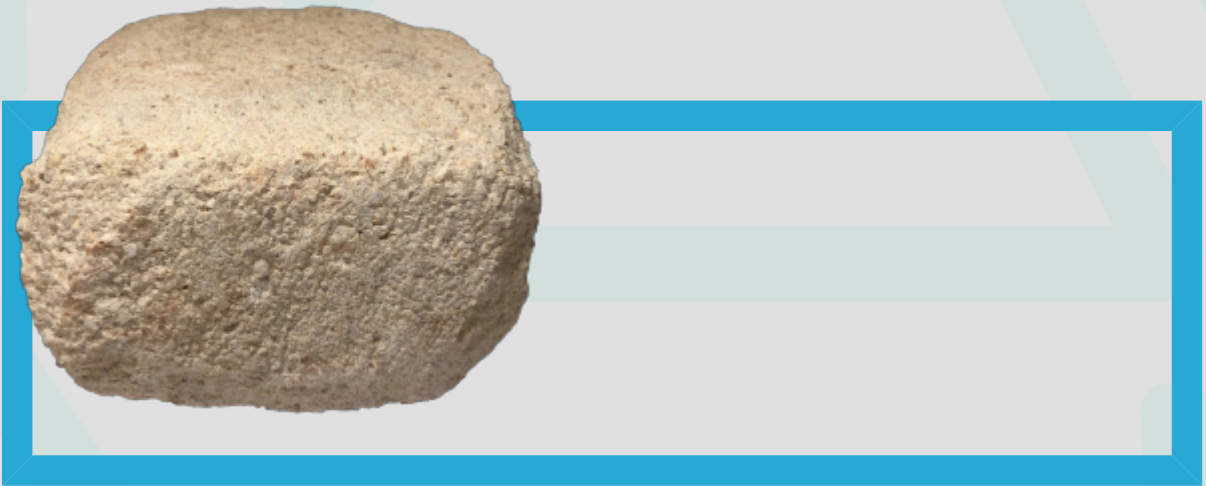
Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	70.00	69	71.50
SiO ₂	27.00	24.5	28.50
Fe ₂ O ₃	0.50	0.3	0.70
Na ₂ O	0.30	0.1	0.60
K ₂ O	0.30	0.1	0.60
TiO ₂	0.25	0.1	0.45
CaO	0.15	0.1	0.30
MgO	0.07	0.05	0.10
ZrO ₂	0.02	0.01	0.05

ZML18

ALUMINAS

- || ZML18 is a porous sintered Zircon mullite material with typical Zircon content of 18%.




Remarks

ZML18 is a porous sintered Zircon mullite material with typical Zircon content of 18%.

Sizing

lumps 0-30 cm

SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C		~1.8 0.9g/cm ³

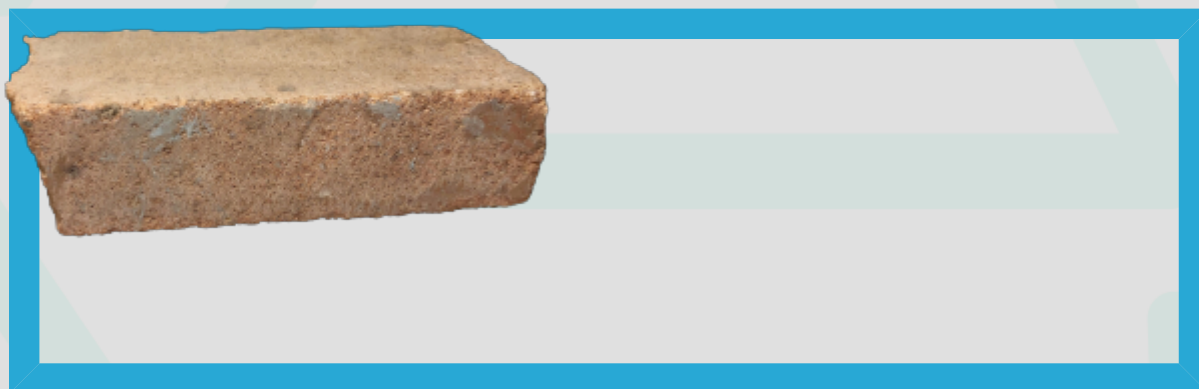
Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	68.84	66.6	69.50
ZrO ₂ +HfO ₂	17.82	15.8	19.20
SiO ₂	12.40	11.4	13.50
Na ₂ O	0.28	0.25	0.30
Fe ₂ O ₃	0.12	0.1	0.15
P ₂ O ₅	0.12	0.1	15.00

ZML20

ALUMINAS

- ■ ZML20 is a fused Zircon mullite material with typical ZrO_2 content of around 20%.




Remarks

ZML20 is a fused Zircon mullite material with typical ZrO₂ content of around 20%.

Sizing

Lumps: 0-30cm. Crushed and graded to typical demanded sizes: 0-1mm; 1-3mm; 3-5mm.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		2.5 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	66.40	65	68.00
Al ₂ O ₃	57.00	55	60.00
ZrO ₂ +HfO ₂	20.50	19	22.00
SiO ₂	14.00	13	15.00
K ₂ O	4.80	4	5.50
Na ₂ O	1.80	1.5	2.50
P ₂ O ₅	0.67	0.6	0.73
TiO ₂	0.40	0.3	0.50
Na ₂ O	0.30	0.25	0.35
LOSS	0.21	0	0.40
MgO	0.13	0.05	0.20
BaO	0.10	0.05	0.15
Fe ₂ O ₃	0.10	0.05	0.15

ZML826

ALUMINAS

- ■ ZML826 is sintered Zircon mullite material with typical ZrO_2 content ranging from 8-26%




Remarks

ZML826 is sintered Zircon mullite material with typical ZrO_2 content ranging from 8-26%

Sizing

grains 0-1 mm

SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C		$\sim 2.50.9g/cm^3$

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al_2O_3	69.00	60	77.00
ZrO_2+HfO_2	17.00	8	26.00
SiO_2	5.00	2	8.00
Na_2O	0.30	0.2	0.50

FML73

ALUMINAS

- FML73 is fused Alumina mullite material with Alumina content of 73% minimum.




Remarks

FML73 is fused Alumina mullite material with Alumina content of 73% minimum.

Sizing

lumps 0-30 cm

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		2.5 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	72.00	70	75.00
SiO ₂	26.00	25	27.00
Na ₂ O	0.50	0.2	1.00
Fe ₂ O ₃	0.50	0.3	0.70
K ₂ O	0.30	0.2	0.80
TiO ₂	0.25	0.1	0.40
Cr ₂ O ₃	0.20	0.1	0.50
CaO	0.15	0.1	0.30
MgO	0.07	0.05	0.10

FML73G(3-5mm)

ALUMINAS



FML73G(3-5) is a Fused mullite phase material with typical Al_2O_3 content of around 73%.



FML73G(3-5mm)


ALUMINAS

Remarks

FML73G(3-5) is a Fused mullite phase material with typical Al₂O₃ content of around 73%.

Sizing

3-5 mm. Max oversize: 10%. Max undersize: 10%.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		2.3 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	73.00	71	75.00
SiO ₂	24.50	23.0	26.00
CaO	0.75	0.5	1.00
Na ₂ O	0.60	0.3	0.90
Fe ₂ O ₃	0.50	0.3	0.70
TiO ₂	0.45	0.30	0.60
K ₂ O	0.10	0.05	0.20
MgO	0.07	0.02	0.15

FML73G(0-3)

ALUMINAS



FML73G(0-3) is a fused mullite phase material with typical Al_2O_3 content of around 73%.



FML73G(0-3)


ALUMINAS

Remarks

FML73G(0-3) is a fused mullite phase material with typical Al_2O_3 content of around 73%.

Sizing

grains 0-3 mm

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~2.30.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al_2O_3	73.00	71	75.00
SiO_2	24.50	23	26.00
CaO	0.75	0.5	1.00
Na_2O	0.60	0.3	0.90
Fe_2O_3	0.50	0.3	0.70
TiO_2	0.45	0.3	0.60
K_2O	0.10	0.05	0.20
MgO	0.07	0.02	0.15

AZS31F

ALUMINA ZIRCON SILICATE

- ■ AZS31F is Alumina Zircon Silicate based material in the form of fine powder with typical ZrO_2 content of 31% minimum.



AZS31F


ALUMINA ZIRCON SILICATE

Remarks

AZS31F is Alumina Zircon Silicate based material in the form of fine powder with typical ZrO₂ content of 31% minimum.

Sizing

-200 mesh

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~3.0g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	42.00	38	44.00
ZrO ₂ +HfO ₂	31.50	31	33.00
SiO ₂	21.00	19	23.00
Na ₂ O	2.80	2.5	3.00
Fe ₂ O ₃	0.40	0.3	0.50
CaO	0.30	0.2	0.50
LOI	0.20	0.1	0.30

AZS32BL

ALUMINA ZIRCON SILICATE

- ■ AZS32BL is fused cast Alumina Zircon Silicate based block and paver type material with typical ZrO_2+HfO_2 content of 32% minimum, $Al_2O_3 \sim 50\%$ and $SiO_2 \sim 15\%$.



AZS32BL


ALUMINA ZIRCON SILICATE

Remarks

AZS32BL is fused cast Alumina Zircon Silicate based block and paver type material with typical ZrO_2+HfO_2 content of 32% minimum, $Al_2O_3 \sim 50\%$ and $SiO_2 \sim 15\%$.

Sizing

Typically in the shapes of rectangular type blocks and pavers. Sizes and shapes will vary. Minor break offs are possible and will be apparent.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		$\sim 3.20.9g/cm^3$

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al_2O_3	50.00	47	52.00
ZrO_2+HfO_2	33.00	32	34.00
SiO_2	15.00	13.5	16.50
Na_2O	2.00	1.5	2.50
Fe_2O_3	0.25	0.15	0.40
K_2O	0.20	0.1	0.40
TiO_2	0.20	0.1	0.40

AZS32L

ALUMINA ZIRCON SILICATE

- ■ AZS32L is a lumpy Alumina Zircon Silicate base material with typical ZrO_2+HfO_2 cumulative content of 32% minimum and with Al_2O_3 in the range of 50% and SiO_2 with typical content of 15%.



AZS32L


ALUMINA ZIRCON SILICATE

Remarks

AZS32L is a lumpy Alumina Zircon Silicate base material with typical ZrO_2+HfO_2 cumulative content of 32% minimum and with Al_2O_3 in the range of 50% and SiO_2 with typical content of 15%.

Sizing

Comes in random sizes and shapes with longest dimension typically not longer than 300 mm.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		3.2 0.9g/cm ³

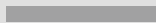
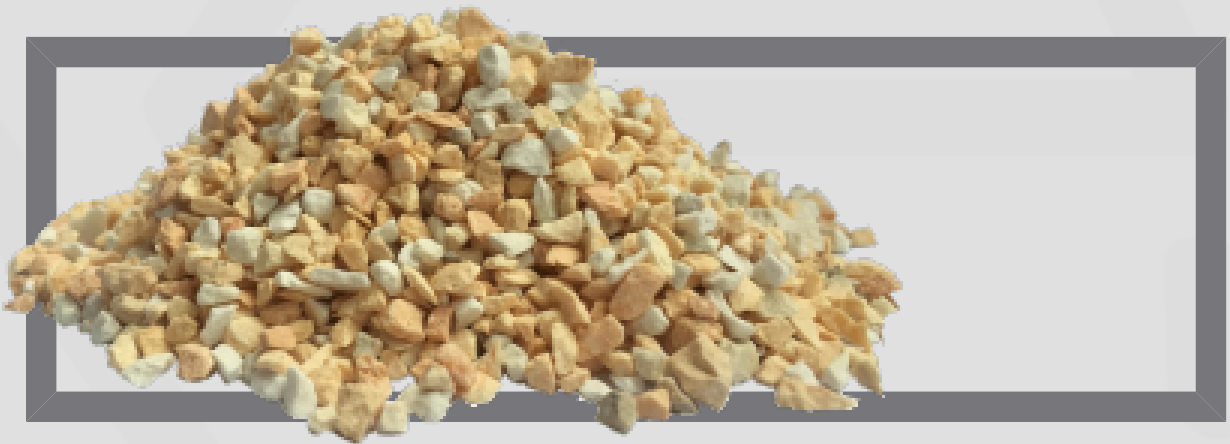
Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al_2O_3	50.00	47	52.00
ZrO_2+HfO_2	33.00	32	34.00
SiO_2	15.00	13.5	16.50
Na_2O	2.00	1.5	2.50
Fe_2O_3	0.25	0.15	0.40
K_2O	0.20	0.1	0.40
TiO_2	0.15	0.1	0.25

AZS32RE

ALUMINA ZIRCON SILICATE

- ■ AZS32RE is Alumina Zircon Silicate material with ZrO_2 content of 32% minimum and Al_2O_3 ranging from 45 to 47%. Material serves as a great substitute to virgin raw materials in lower end refractory applications, such as castables.



AZS32RE


ALUMINA ZIRCON SILICATE

Remarks

AZS32RE is Alumina Zircon Silicate material with ZrO₂ content of 32% minimum and Al₂O₃ ranging from 45 to 47%. Material serves as a great substitute to virgin raw materials in lower end refractory applications, such as castables.

Sizing

Typically: 0-1; 1-3; 3-5 mm; Any size based on clients demand.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		30.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	46.00	45	47.50
ZrO ₂ +HfO ₂	33.00	32	34.00
SiO ₂	14.50	13.50	16.00
Na ₂ O	1.70	1.30	2.20
Fe ₂ O ₃	0.25	0.10	0.40
K ₂ O	0.20	0.10	0.40
TiO ₂	0.20	0.10	0.40

AZS32CE

ALUMINA ZIRCON SILICATE



AZS32CE is Alumina Zircon Silicate material with typical ZrO_2 content of 32% minimum and Al_2O_3 content of around 52%.



AZS32CE


ALUMINA ZIRCON SILICATE

Remarks

AZS32CE is Alumina Zircon Silicate material with typical ZrO₂ content of 32% minimum and Al₂O₃ content of around 52%.

Sizing

0-1 mm; 0-3 mm; Pass 325 mesh (Passing rate 92%)

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~3.00.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	52.00	50	54.00
ZrO ₂ +HfO ₂	33.00	32	34.00
SiO ₂	14.50	13.5	16.00
Na ₂ O	2.00	1.5	2.50
Fe ₂ O ₃	0.25	0.1	0.40
TiO ₂	0.20	0.1	0.40
K ₂ O	0.20	0.1	0.40
Free Iron	0.03	0.02	0.05

AZSF33

ALUMINA ZIRCON SILICATE

- ■ AZSF33 is carefully re-processed Alumina Zircon Silicate fine material with ZrO_2 content of minimum 33% and particle sizing pass 200 mesh.



AZSF33


ALUMINA ZIRCON SILICATE

Remarks

AZSF33 is carefully re-processed Alumina Zircon Silicate fine material with ZrO₂ content of minimum 33% and particle sizing pass 200 mesh.

Sizing

particle sizing pass 200 mesh

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		3.0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	50.00	49	52.00
ZrO ₂ +HfO ₂	33.00	32	34.00
SiO ₂	16.00	15	17.00
Na ₂ O	1.60	1.3	2.00
TiO ₂	0.20	0.1	0.30
Fe ₂ O ₃	0.20	0.1	0.30
MgO	0.10	0.05	0.20
Free Iron	0.05	0.02	0.10

AZS35L

ALUMINA ZIRCON SILICATE



AZS35L is a lumpy Alumina Zircon Silicate material which comes with ZrO_2 content at 35% minimum and Na_2O of 1.6% max




AZS35L

ALUMINA ZIRCON SILICATE

Remarks

AZS35L is a lumpy Alumina Zircon Silicate material which comes with ZrO₂ content at 35% minimum and Na₂O of 1.6% max

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		3.5 0.9g/cm ³

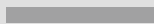
Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	47.50	46	49.00
ZrO ₂ +HfO ₂	36.00	35	37.00
SiO ₂	13.50	13	14.50
Na ₂ O	1.30	1	1.50
Fe ₂ O ₃	0.20	0.1	0.30
TiO ₂	0.15	0.1	0.25
MgO	0.10	0.05	0.15

AZS35G

ALUMINA ZIRCON SILICATE

- ■ AZS35G is Alumina Zircon silicate material with ZrO_2 content of 35% minimum, which serves as a great substitute for applications in production of sintered AZS and where fused Zircon mullite material is required.



AZS35G


ALUMINA ZIRCON SILICATE

Remarks

AZS35G is Alumina Zircon silicate material with ZrO₂ content of 35% minimum, which serves as a great substitute for applications in production of sintered AZS and where fused Zircon mullite material is required.

Sizing

Typically: 0.2-1; 0-1; 1-3; 3-5 mm

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		3.3 0.9g/cm ³

Chemical Composition & Physical Analysis

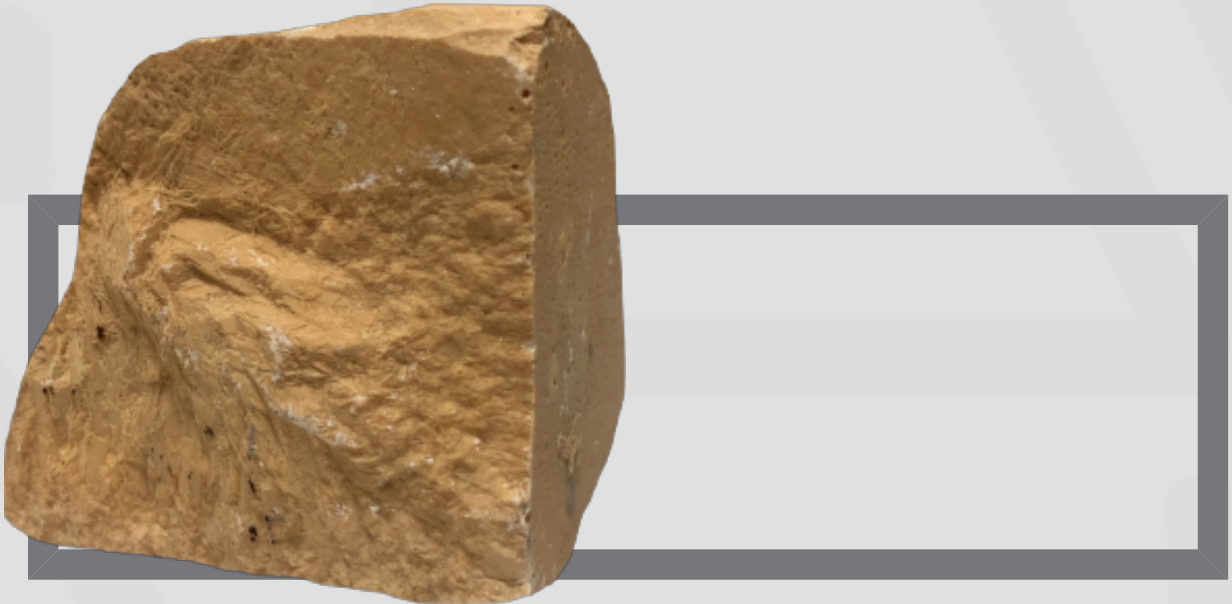
Name	Typical	Min %	Max %
Al ₂ O ₃	47.50	46	49.00
ZrO ₂ +HfO ₂	36.00	35	37.00
SiO ₂	13.50	13	14.50
Na ₂ O	1.30	1	1.50
Fe ₂ O ₃	0.20	0.1	0.30
TiO ₂	0.15	0.1	0.25
MgO	0.10	0.05	0.15
Free Iron	0.03	0.01	0.05

AZS40L

ALUMINA ZIRCON SILICATE



AZS40L is fused Alumina Zircon Silicate material with typical cumulative ZrO_2+HfO_2 content of 40%.



AZS40L


ALUMINA ZIRCON SILICATE

Remarks

AZS40L is fused Alumina Zircon Silicate material with typical cumulative ZrO_2+HfO_2 content of 40%.

Sizing

Lumps sized 0 - 30 cm.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		3.5 0.9g/cm ³

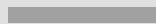
Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al_2O_3	45.00	43	47.00
$ZrO_2 + HfO_2$	40.00	39	41.00
SiO_2	13.00	12	14.00
Na_2O	1.00	0.5	1.50
K_2O	0.30	0.1	0.50
Fe_2O_3	0.20	0.1	0.30

AZS40G

ALUMINA ZIRCON SILICATE

- ■ AZS40G is Alumina Zircon Silicate material with ZrO_2 content of 39% minimum, which serves as a great substitute in applications for production of sintered AZS refractories and where the Fused Zircon mullite is required.




AZS40G

ALUMINA ZIRCON SILICATE

Remarks

AZS40G is Alumina Zircon Silicate material with ZrO₂ content of 39% minimum, which serves as a great substitute in applications for production of sintered AZS refractories and where the Fused Zircon mullite is required.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		3.40.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	45.00	43	47.00
ZrO ₂ + HfO ₂	40.00	39	41.00
SiO ₂	13.00	12	4.00
Na ₂ O	1.00	0.5	1.50
K ₂ O	0.30	0.1	0.50
Fe ₂ O ₃	0.20	0.1	0.30
TiO ₂	0.15	0.1	0.25
Free Iron	0.03	0.01	0.05

ZML33F

ALUMINA ZIRCON SILICATE



ZML33F is fused Zircon mullite material with typical ZrO_2 content of 33%.



ZML33F

ALUMINA ZIRCON SILICATE

Remarks

ZML33F is fused Zircon mullite material with typical ZrO₂ content of 33%.

Sizing

Pass 200 mesh. 92% passing standard.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~ 3 0.9g/cm ³

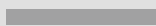
Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	47.00	45	50.00
ZrO ₂ +HfO ₂	33.00	32	35.00
SiO ₂	18.00	16	20.00
Na ₂ O	0.50	0.3	0.70
Y ₂ O ₃	0.30	0.2	0.40
Fe ₂ O ₃	0.15	0.10	0.20
TiO ₂	0.10	0.05	0.15
CaO	0.10	0.05	0.15
K ₂ O	0.05	0.01	0.10

ZML33DT

ALUMINA ZIRCON SILICATE

- ■ ZML33DT is fused Zircon mullite material which comes in the form of fine powder -100 mesh with ZrO_2+HfO_2 content of 31% minimum.



ZML33DT


ALUMINA ZIRCON SILICATE

Remarks

ZML33DT is fused Zircon mullite material which comes in the form of fine powder -100 mesh with ZrO_2+HfO_2 content of 31% minimum.

Sizing

-100 mesh

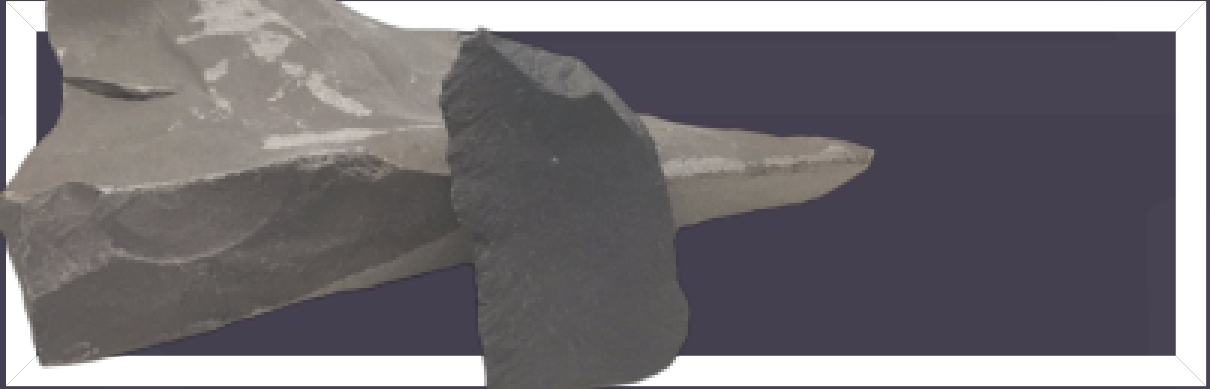
FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		$\sim 2.909 \text{ g/cm}^3$

Chemical Composition & Physical Analysis

DZ65

ZIRCON

- ■ DZ65 is fused and isostatically pressed Zircon based material with typical Zircon content of 65% and above. The material excels with high density and serves as a great substitute in applications for Zircon based shaped cast refractories.



Remarks

DZ65 is fused and isostatically pressed Zircon based material with typical Zircon content of 65% and above. The material excels with high density and serves as a great substitute in applications for Zircon based shaped cast refractories.

Sizing

Lumpy material in the size from 0 - 30 cm.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~4.2 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂	65.50	64.5	66.00
SiO ₂	32.00	31.5	33.00
TiO ₂	0.90	0.5	1.00
CaO	0.65	0.5	0.80
Al ₂ O ₃	0.55	0.3	0.70
Fe ₂ O ₃	0.15	0.1	0.30
MgO	0.15	0.1	0.20

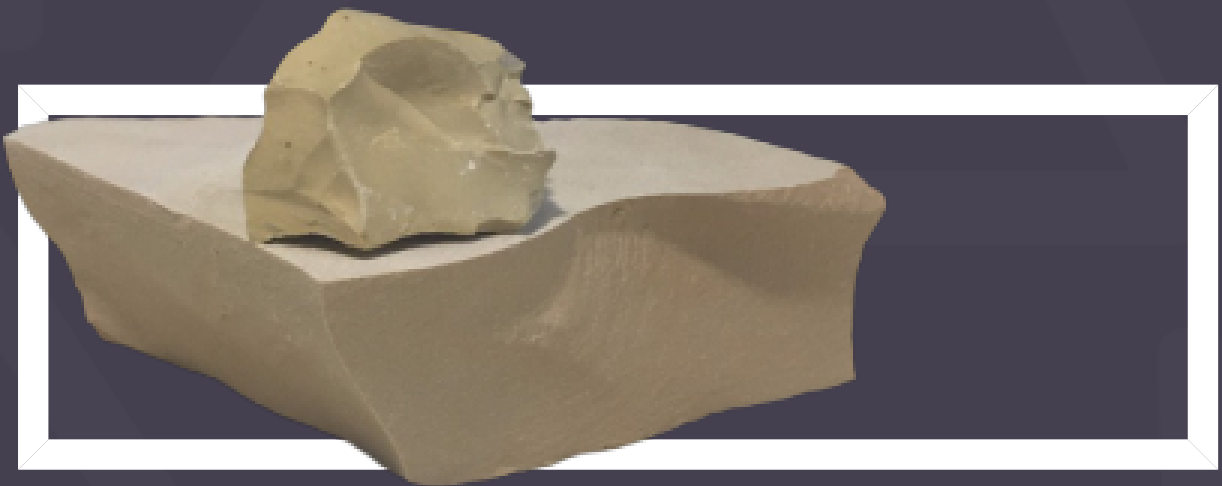
Zircon

DZ69

ZIRCON




DZ69 is Fused isostatically pressed material with dense structure.



Remarks

DZ69 is Fused isostatically pressed material with dense structure.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~4.20g/cm ³

Chemical Composition & Physical Analysis

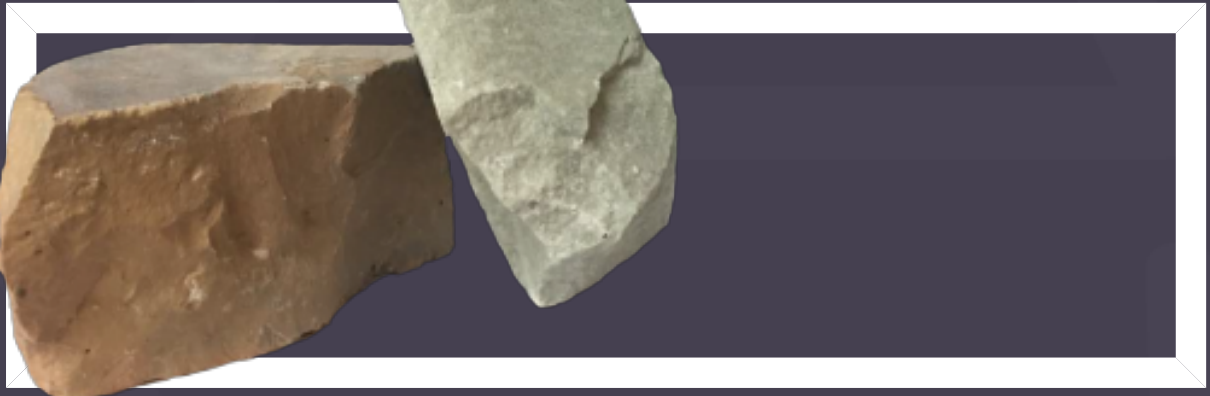
Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	68.00	66	69.00
SiO ₂	28.00	27	29.00
TiO ₂	0.70	0.5	1.00
CaO	0.70	0.5	1.00
Al ₂ O ₃	0.35	0.1	0.50
Fe ₂ O ₃	0.23	0.1	0.30
NaO	0.15	0.1	0.25
MgO	0.10	0.05	0.20

Zircon

TZB58

ZIRCON

- ■ TZB58 is sintered Zircon brick material with typical Zircon content from 56-60%. The material comes in green, yellow, orange and red randomly sized cullet form.



TZB58

ZIRCON

Remarks

TZB58 is sintered Zircon brick material with typical Zircon content from 56-60%. The material comes in green, yellow, orange and red randomly sized cullet form.

SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C		~3.40.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	59.00	58	62.00
SiO ₂	36.50	35	37.00
Al ₂ O ₃	0.70	0.5	0.90
CaO	0.70	0.2	1.00
TiO ₂	0.50	0.3	1.00
Na ₂ O	0.40	0.2	0.60
Fe ₂ O ₃	0.22	0.1	0.30
CaO	0.20	0.1	0.50
K ₂ O	0.15	0.1	0.20

TZB65


ZIRCON

- ■ TZB65 is Zircon Silicate brick material which has been carefully sorted in order to achieve only yellow to red range colors of material, meanwhile guaranteeing minimum ZrO_2 content of 64%.



Remarks

TZB65 is Zircon Silicate brick material which has been carefully sorted in order to achieve only yellow to red range colors of material, meanwhile guaranteeing minimum ZrO₂ content of 64%.

SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C		3.4 - 3.6 0.9g/cm ³

Chemical Composition & Physical Analysis

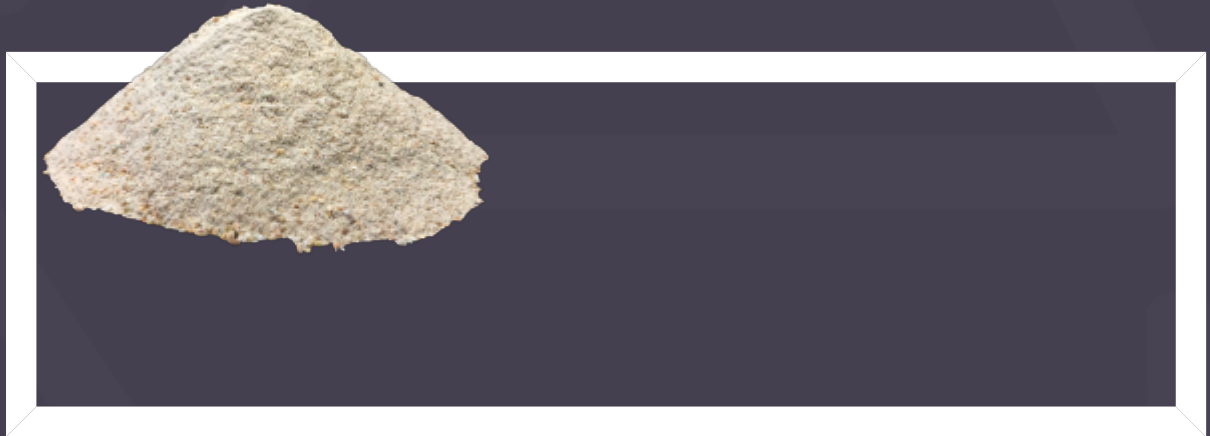
Name	Typical	Min %	Max %
ZrO ₂	65.50	65	66.00
SiO ₂	32.00	31.5	32.50
TiO ₂	0.60	0.2	1.00
Al ₂ O ₃	0.60	0.3	1.00
Fe ₂ O ₃	0.20	0.1	0.30
Na ₂ O	0.10	0.05	0.20

TZB65G

ZIRCON



TZB65G is a Zircon silicate based material with typical $ZrO_2 + HfO_2$ cumulative content of 65% and guaranteed content of 64% minimum.



TZB65G

ZIRCON

Remarks

TZB65G is a Zircon silicate based material with typical ZrO_2+HfO_2 cumulative content of 65% and guaranteed content of 64% minimum.

Sizing

0-1mm; 1-3mm; 3-5mm

SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C		~3.70.9g/cm ³

Chemical Composition & Physical Analysis

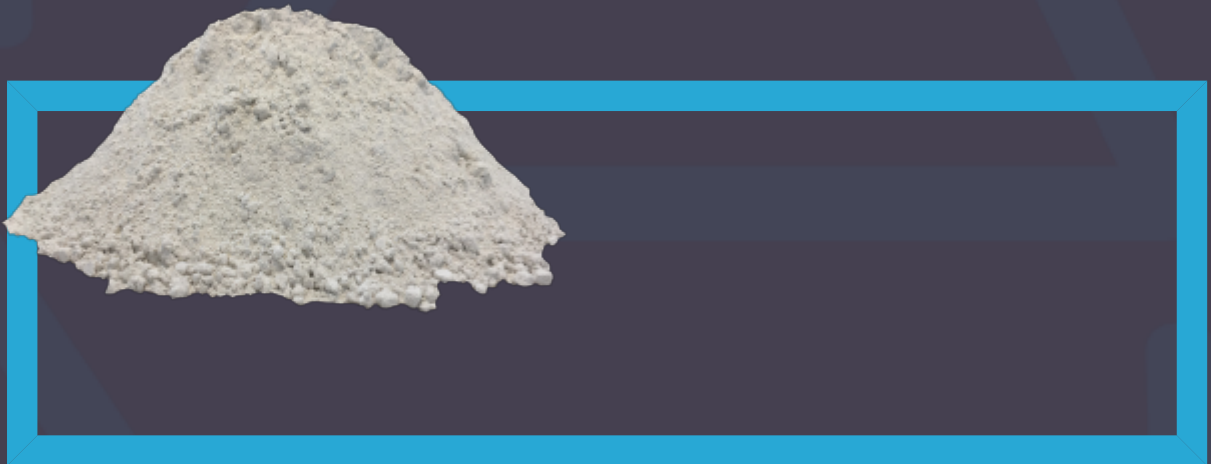
Name	Typical	Min %	Max %
ZrO_2+HfO_2	65.00	64	66.00
SiO_2	32.00	31	33.00
Al_2O_3	0.70	0.5	1.50
TiO_2	0.50	0.3	0.90
P_2O_5	0.20	0.1	0.40
Fe_2O_3	0.15	0.1	0.40
CaO	0.15	0.10	0.50
Na_2O	0.10	0.01	0.20
K_2O	0.10	0.05	0.20

Zr58

ZIRCON SILICATE

||

Zr58 is a sintered Zircon Silicate material with typical ZrO_2+HfO_2 content of around 58%.



Zr58


ZIRCON SILICATE

Remarks

Zr58 is a sintered Zircon Silicate material with typical ZrO_2+HfO_2 content of around 58%.

Sizing

Pass 100 mesh; Pass 200 mesh; Pass 325 mesh

SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C		~3.5 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	58.50	57.5	61.00
SiO ₂	36.00	34.5	36.50
Al ₂ O ₃	1.50	1	2.50
CaO	0.70	0.2	1.00
TiO ₂	0.50	0.3	1.00
Na ₂ O	0.40	0.2	0.60
Fe ₂ O ₃	0.25	0.1	0.30
K ₂ O	0.15	0.1	0.20

Zr65

ZIRCON SILICATE



Zr65 is a sintered Zircon Silicate material with typical ZrO_2+HfO_2 content of around 65%.




Remarks

Zr65 is a sintered Zircon Silicate material with typical ZrO_2+HfO_2 content of around 65%.

Sizing

Pass 100 mesh; Pass 200 mesh; Pass 325 mesh

SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C		~3.70.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂	65.00	64.5	65.50
SiO ₂	31.50	31	32.00
Al ₂ O ₃	1.20	0.8	2.00
TiO ₂	0.60	0.2	1.00
Fe ₂ O ₃	0.20	0.1	0.30
Na ₂ O	0.10	0.05	0.20

Zr65F

ZIRCON SILICATE

||

Zr65F is Zircon Silicate based material with typical ZrO_2 content of 65% and guaranteed content of 64% minimum.



Zr65F


ZIRCON SILICATE

Remarks

Zr65F is Zircon Silicate based material with typical ZrO_2 content of 65% and guaranteed content of 64% minimum.

Sizing

Pass 325 mesh. 92% passing standard.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		3.9 0.9g/cm ³

Chemical Composition & Physical Analysis

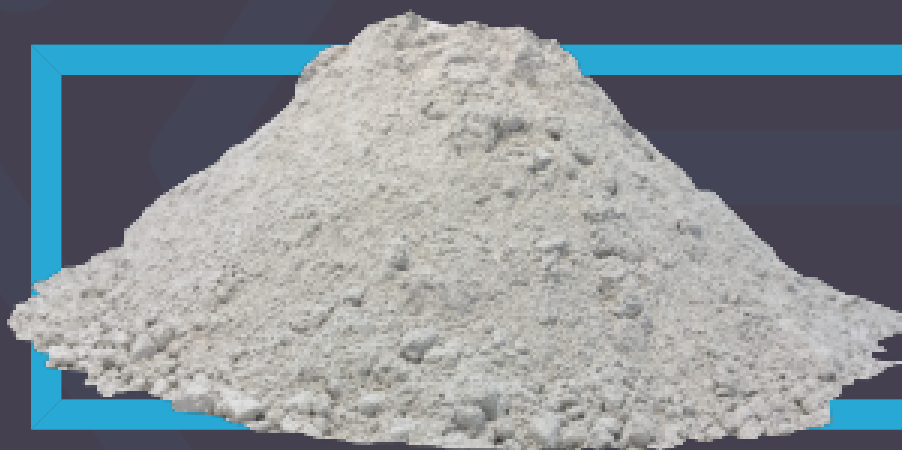
Name	Typical	Min %	Max %
ZrO_2+HfO_2	65.00	64.00	65.50
SiO_2	32.50	31.50	33.50
Moisture	0.50	0.30	1.00
TiO_2	0.30	0.10	0.50
Al_2O_3	0.20	0.10	0.50
P_2O_5	0.20	0.1	0.40
Fe_2O_3	0.10	0.05	0.20
CaO	0.10	0.05	0.30
MgO	0.05	0.01	0.20

DZr65

ZIRCON SILICATE



DZr65 is dense fused Zircon Silicate material with typical ZrO_2 + HfO_2 content of around 65%.




Remarks

DZr65 is dense fused Zircon Silicate material with typical ZrO_2+HfO_2 content of around 65%.

Sizing

Pass 100 mesh; Pass 200 mesh; Pass 325 mesh

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		4.1 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂	65.00	64	65.50
SiO ₂	31.50	31	32.50
TiO ₂	0.90	0.5	1.00
CaO	0.65	0.5	0.80
Al ₂ O ₃	0.55	0.3	0.70
Fe ₂ O ₃	0.15	0.1	0.30
MgO	0.15	0.1	0.20

DZr69

ZIRCON SILICATE



DZr69 is fused dense Zircon Silicate material with typical $ZrO_2 + HfO_2$ content ranging from 65 - 68%.



Remarks

DZr69 is fused dense Zircon Silicate material with typical ZrO_2+HfO_2 content ranging from 65 - 68%.

Sizing

Pass 100 mesh; Pass 200 mesh; Pass 325 mesh

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~4.2 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO_2+HfO_2	67.50	65.5	68.50
SiO_2	27.50	26.5	28.50
CaO	0.70	0.5	1.00
TiO_2	0.70	0.5	1.00
Al_2O_3	0.35	0.1	0.50
Fe_2O_3	0.23	0.1	0.30
NaO	0.15	0.1	0.25
MgO	0.10	0.05	0.20

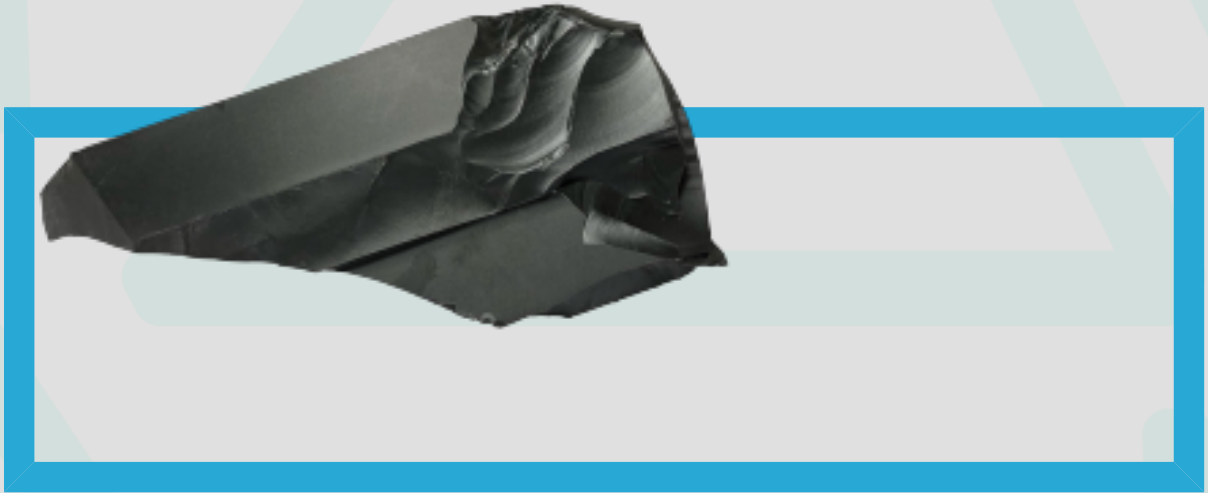
Silica Carbide

SiC99STR

SILICA CARBIDE



SiC99STR is fused Silica Carbide material with typical SiC content of 99%.



SiC99STR

SILICA CARBIDE

Remarks

SiC99STR is fused Silica Carbide material with typical SiC content of 99%.

Sizing

lumps 0-20 cm

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C	●	2.5 0.9g/cm ³

Chemical Composition & Physical Analysis

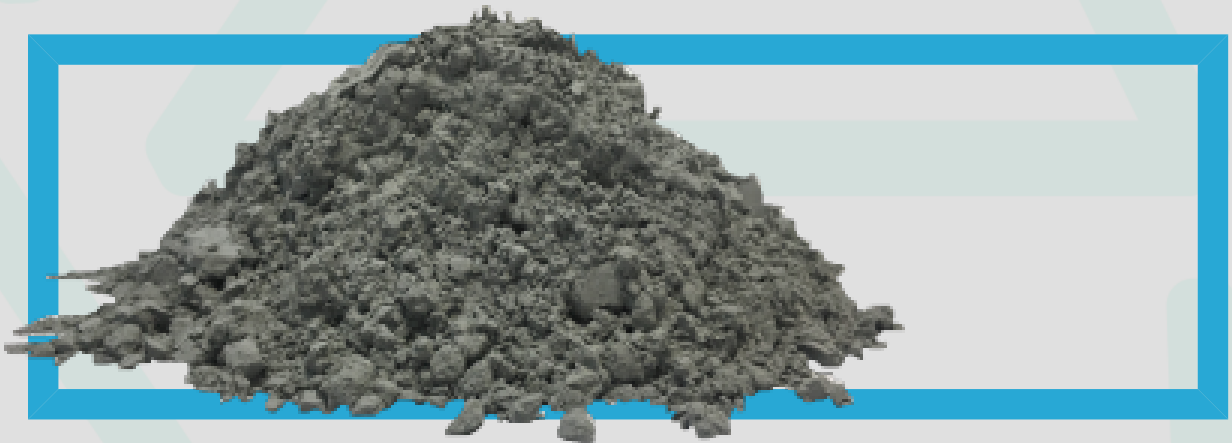
Name	Typical	Min %	Max %
SiC	99.30	99	99.50
Fe ₂ O ₃	0.30	0.15	0.45
TiO ₂	0.30	0.15	0.45
CoO	0.20	0.15	0.25
SO ₃	0.10	0.05	0.15

SiC97F800

SILICA CARBIDE

”

SiC97F800 is a fused Silica Carbide based raw material with SiC content of 97% min and particle sizing pass 325 mesh with D50 at 6-10 microns.



SiC97F800

SILICA CARBIDE

Remarks

SiC97F800 is a fused Silica Carbide based raw material with SiC content of 97% min and particle sizing pass 325 mesh with D50 at 6-10 microns.

Sizing

Pass 325 mesh, D50 4-7 microns, with oversize 325mesh+ max 2%.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C	●	~0.84g/cm ³ 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
SiC	97.80	97.5	98.30
Si+SiO ₂	2.20	1.8	2.50
Free Carbon	0.35	0.2	0.50
Fe ₂ O ₃	0.20	0.1	0.30
H ₂ O	0.10	0.05	0.30

Silica Carbide

SiC97F600

SILICA CARBIDE

- SiC97F600 is fused Silica Carbide based material of typical SiC content of 97% minimum and particle size of -325 mesh.



SiC97F600

SILICA CARBIDE

Remarks

SiC97F600 is fused Silica Carbide based material of typical SiC content of 97% minimum and particle size of -325 mesh.

Sizing

Pass 325 mesh D50 6-10 microns with oversize 325mesh+ 2% max.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C	●	~0.9g/cm ³ 0.9g/cm ³

Chemical Composition & Physical Analysis

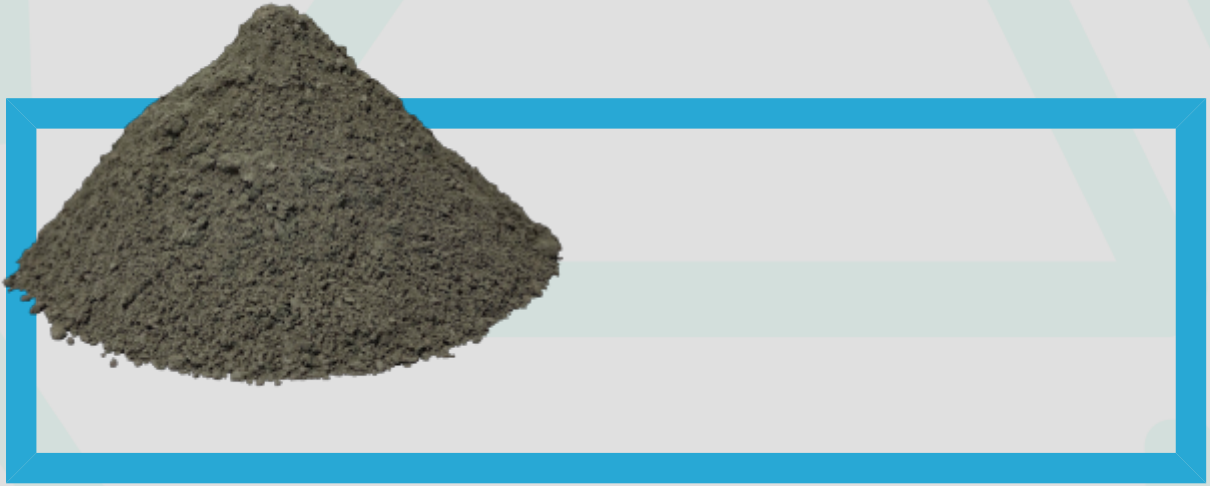
Name	Typical	Min %	Max %
SiC	98.00	97.8	98.30
Si + SiO ₂	2.20	1.8	2.50
Free Carbon	0.35	0.2	0.50
Fe ₂ O ₃	0.25	0.15	0.30
H ₂ O	0.10	0.05	0.30

Silica Carbide

SiC95GR

SILICA CARBIDE

|| 0




SiC95GR

SILICA CARBIDE

Remarks

0

FIRED (PROCESS)	COLOURATION	BULK DENSITY
900 C		0.9g/cm ³

Chemical Composition & Physical Analysis

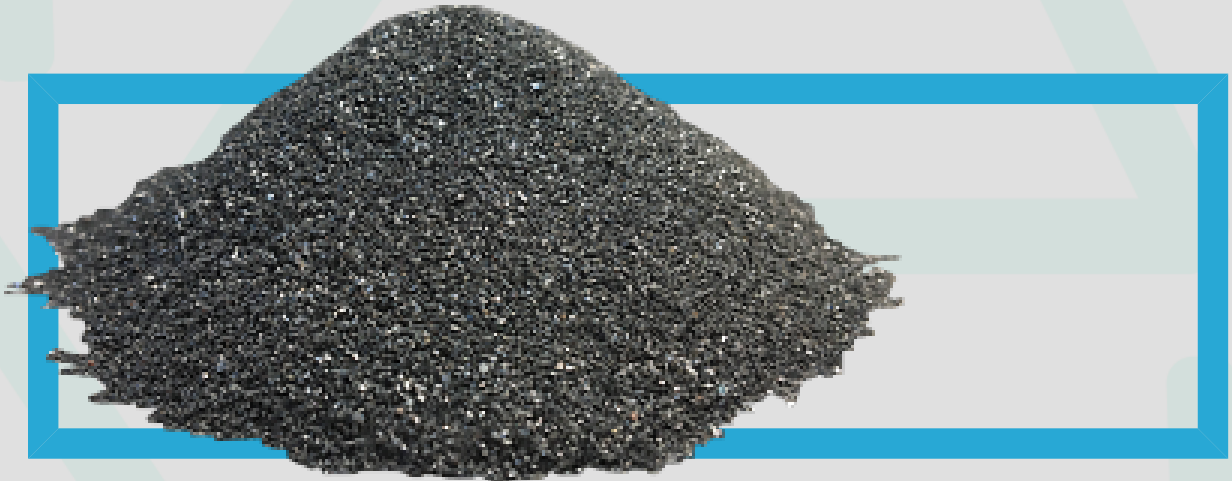
Name	Typical	Min %	Max %
SiC	95.74	94	97.00
SiO ₂	2.90	2.3	3.50
LOSS	0.38	0	0.50
F.Si	0.27	0.2	0.35
Fe ₂ O ₃	0.15	0.1	0.20

Silica Carbide

SiC85F

SILICA CARBIDE

- SiC85F is fused Silica Carbide based raw material with typical SiC content of 85% min.



Remarks

SiC85F is fused Silica Carbide based raw material with typical SiC content of 85% min.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C	●	~2.09g/cm ³

Chemical Composition & Physical Analysis

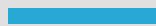
Name	Typical	Min %	Max %
SiC	88.00	85	93.00
SiO ₂	8.00	2.0	10.00
Al ₂ O ₃	0.60	0.4	1.00
Free Si	0.50	0.2	1.00
CaO	0.10	0.01	0.30
TiO ₂	0.05	0.02	0.10
K ₂ O	0.05	0.01	0.10
MgO	0.05	0.01	0.10
Na ₂ O	0.05	0.01	0.10

Silica Carbide

SiC80STR

SILICA CARBIDE

- SiC80STR is re-crystallized Silica Carbide material with Silica Carbide content of 80% minimum.



SiC80STR

SILICA CARBIDE

Remarks

SiC80STR is re-crystallized Silica Carbide material with Silica Carbide content of 80% minimum.

Sizing

Randomly sized lumps from 0-30 cm.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C	●	2.70.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
SiC	82.00	80	85.00
SiO ₂	16.50	15	17.00
Free Si	1.30	1	1.50
CaO	0.25	0.1	0.35
Al ₂ O ₃	0.18	0.15	0.25
Fe ₂ O ₃	0.12	0.10	0.20
na ₂ O	0.05	0.02	0.10

SiC80

SILICA CARBIDE

||

SiC80 is plate-shaped and random lumpy sized material of Silica Carbide content ranging from 80-85%.



Remarks

SiC80 is plate-shaped and random lumpy sized material of Silica Carbide content ranging from 80-85%.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C	 	2.30.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
SiC	82.50	80	85.00
Fe ₂ O ₃	1.50	1.2	1.70
Free Carbon	1.30	1	1.50
Al ₂ O ₃	1.00	0.7	1.50
S	0.13	0.01	0.20

Silica Carbide

SiC80G

SILICA CARBIDE

- SiC80G is fused Silica Carbide material with typical SiC content of 80%.



Remarks

SiC80G is fused Silica Carbide material with typical SiC content of 80%.

Sizing

grains 0-10 mm

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C	●	~1.6 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
SiC	78.50	76.5	80.50
SiO ₂	20.00	18	22.00
Al ₂ O ₃	0.90	0.8	1.00
Fe ₂ O ₃	0.23	0.18	0.28
SO ₃	0.20	0.15	0.25
CaO	0.17	0.12	0.20

SiC70

SILICA CARBIDE

- SiC70 is randomly sized lumpy SiC base material with typical SiC content of around 75% and guaranteed SiC content of 70% minimum.




Remarks

SiC70 is randomly sized lumpy SiC base material with typical SiC content of around 75% and guaranteed SiC content of 70% minimum.

Sizing

Randomly sized lumps 0 - 30 cm.

SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C		2.2 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
SiC	75.00	70	78.00
SiO ₂	20.00	18	23.00
Al ₂ O ₃	1.00	0.5	1.70
Fe ₂ O ₃	0.60	0.3	0.90
CaO	0.30	0.1	0.70
CO	0.25	0	0.35
SO ₃	0.20	0.1	0.30
F.Si	0.15	0	0.45
K ₂ O	0.10	0	0.30
Na ₂ O	0.05	0	0.20
TiO ₂	0.05	0	0.20
MgO	0.05	0	0.20
P ₂ O ₅	0.03	0	0.20
CuO	0.02	0	0.05
NiO	0.02	0	0.05

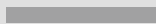
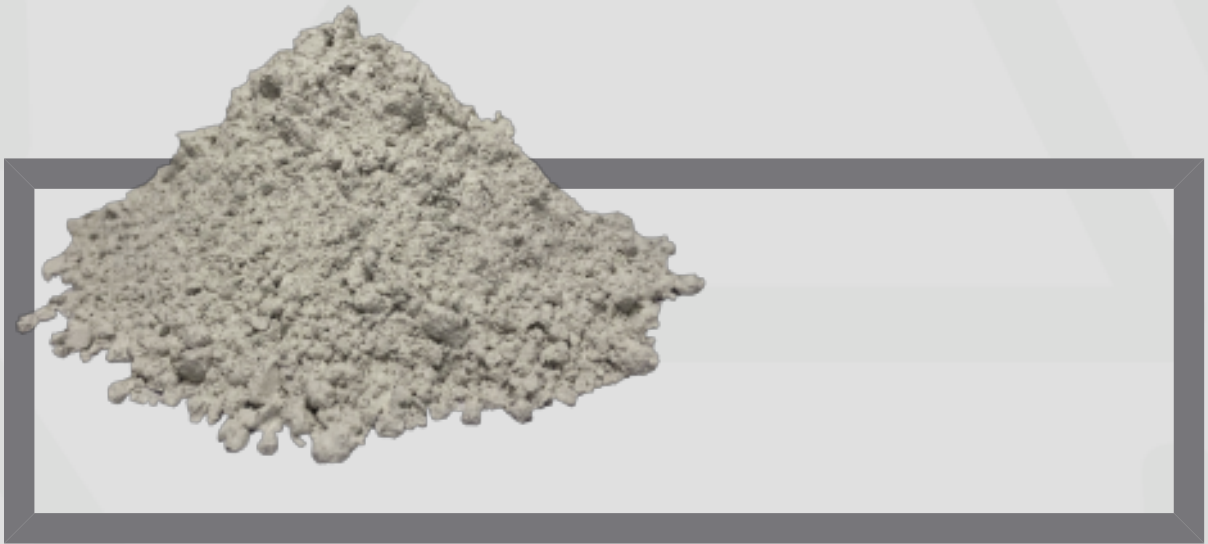
Stabilizers

SPO5

STABILIZERS



0



Remarks

0

Sizing

0

FIRED (PROCESS)	COLOURATION	BULK DENSITY
900 C		0.09g/cm ³

Chemical Composition & Physical Analysis

Cr90

CHROME OXIDE

- ■ Dense Chrome is sintered and iso-pressed Chrome Oxide based material with dense structure and Cr_2O_3 content typically in the range from 90-94%.



Remarks

Dense Chrome is sintered and iso-pressed Chrome Oxide based material with dense structure and Cr₂O₃ content typically in the range from 90-94%.

Sizing

Lumps: 0-30 cm; Coarse Powdered state: 0-1 mm; 0-3 mm; 0-5 mm; Fine powdered state: Pass 325 mesh (Passing rate 92%)

SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C		~5.09g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Cr ₂ O ₃	93.00	90	94.00
TiO ₂	5.00	4	6.00
SiO ₂	0.50	0.3	0.80
SrO	0.50	0.1	0.70
Al ₂ O ₃	0.20	0.1	0.30
Fe ₂ O ₃	0.10	0.05	0.20
Hex Chrome	0.01	0	0.05

AlCr1050

CHROME OXIDE



AlCr1050 is Alumina Chrome material with typical Cr_2O_3 content ranging from 10 - 50% with average WBA at 30%.



AlCr1050

CHROME OXIDE

Remarks

AlCr1050 is Alumina Chrome material with typical Cr_2O_3 content ranging from 10 - 50% with average WBA at 30%.

Sizing

lumps 0-30 cm

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C	●	0.9g/cm ³

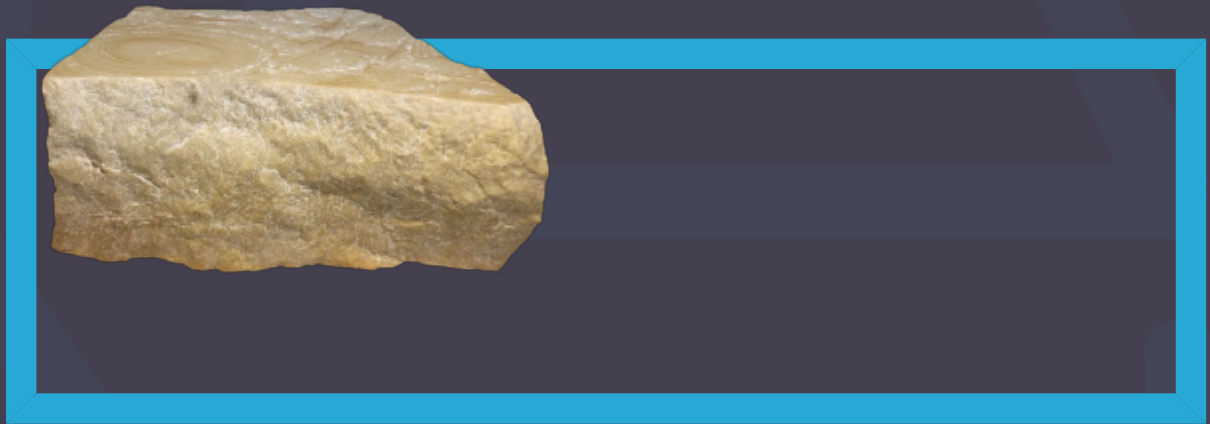
Chemical Composition & Physical Analysis

Silica stabilized Zirconia

HZ90

SILICA STABILIZED ZIRCONIA

- || HZ90 is Silica stabilized fused High Zirconia material with ZrO_2 content typically ranging from 90-94%.




HZ90

SILICA STABILIZED ZIRCONIA

Remarks

HZ90 is Silica stabilized fused High Zirconia material with ZrO_2 content typically ranging from 90-94%.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~5 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO_2+HfO_2	92.00	90	94.00
SiO_2	4.00	3	5.00
Al_2O_3	0.60	0.3	0.90
K_2O	0.35	0.2	0.40
TiO_2	0.20	0.1	0.25
BaO	0.15	0.1	0.20
Na_2O	0.08	0.05	0.10
Fe_2O_3	0.07	0.05	0.15

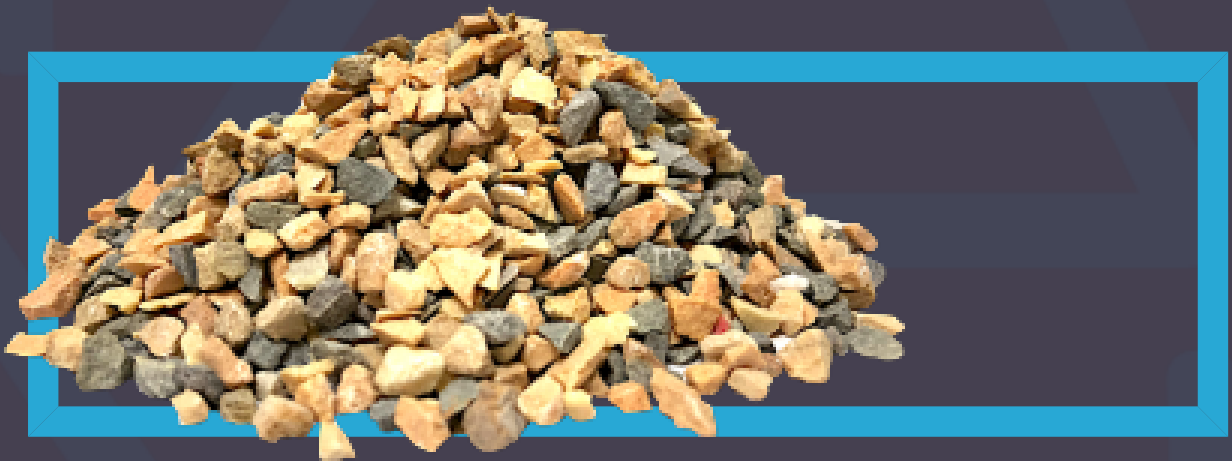
Silica stabilized Zirconia

HZ90G(3-5)

SILICA STABILIZED ZIRCONIA

||

HZ90G(3-5) is High Zirconia fused material crushed to grain sizes of 3-5 mm with typical ZrO_2 content in the range of 90-94%.



HZ90G(3-5)

SILICA STABILIZED ZIRCONIA

Remarks

HZ90G(3-5) is High Zirconia fused material crushed to grain sizes of 3-5 mm with typical ZrO₂ content in the range of 90-94%.

Sizing

3-5 mm

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~5 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	92.00	90.00	94.00
SiO ₂	4.00		4.25
Al ₂ O ₃	0.50		0.55
K ₂ O	0.40		0.35
BaO	0.20		0.15
TiO ₂	0.15		0.17
Fe ₂ O ₃	0.10		0.15
NaO	0.10		0.07

Silica stabilized Zirconia

HZ90G(1-3)

SILICA STABILIZED ZIRCONIA



HZ90G is fused Silica stabilized High Zirconia raw material with typical cumulative ZrO_2+HfO_2 content of 90% minimum.



HZ90G(1-3)

SILICA STABILIZED ZIRCONIA

Remarks

HZ90G is fused Silica stabilized High Zirconia raw material with typical cumulative ZrO_2+HfO_2 content of 90% minimum.

Sizing

Grains crushed to sizings of 0-1; 1-3; 3-5; 5-20 mm.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		5.09g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO_2+HfO_2	92.00	90	94.00
SiO_2	4.00	3	5.00
Al_2O_3	0.60	0.3	0.90
K_2O	0.35	0.2	0.40
TiO_2	0.20	0.1	0.25
TiO_2	0.20	0.1	0.25
Bao	0.15	0.1	0.20
Na_2O	0.08	0.05	0.10
Fe_2O_3	0.07	0.05	0.15
Fe_2O_3	0.07	0.05	0.15

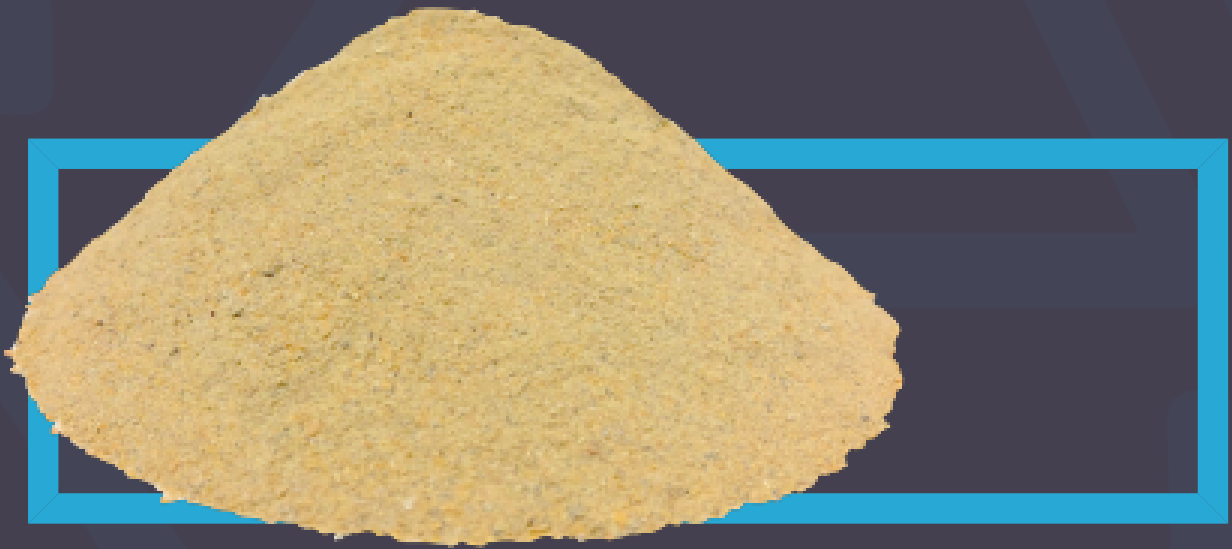
Silica stabilized Zirconia

HZ90G(0-1)

SILICA STABILIZED ZIRCONIA



HZ90G(0-1) is a fused Silica stabilized High Zirconia refractory raw material with typical cumulative ZrO_2+HfO_2 content of 90% minimum.



HZ90G(0-1)


SILICA STABILIZED ZIRCONIA

Remarks

HZ90G(0-1) is a fused Silica stabilized High Zirconia refractory raw material with typical cumulative ZrO_2+HfO_2 content of 90% minimum.

Sizing

0-1 mm; Pass 100 mesh; Pass 200 mesh; Pass 325 mesh; Passing rate standard: 92%.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		5.09g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO_2+HfO_2	92.00	90	94.00
SiO_2	4.00	3	5.00
Al_2O_3	1.60	1.3	2.50
K_2O	0.35	0.2	0.40
TiO_2	0.20	0.1	0.25
BaO	0.15	0.1	0.20
Na_2O	0.08	0.05	0.10
Fe_2O_3	0.07	0.05	0.15

Yttrium stabilized Zirconia

Y94L

YTTRIUM STABILIZED ZIRCONIA

- Y94L is Yttrium stabilized chemical Zirconia material with $ZrO_2 + HfO_2$ cumulative content ranging around 94% and Y_2O_3 of around 5%.



Y94L

YTTRIUM STABILIZED ZIRCONIA

Remarks

Y94L is Yttrium stabilized chemical Zirconia material with ZrO_2+HfO_2 cumulative content ranging around 94% and Y_2O_3 of around 5%.

Sizing

Randomly sized lumps in size ranges from 0-10cm.

BISQUE FIRED (PROCESS)	COLOURATION	BULK DENSITY
1050 C		5.7 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO_2+HfO_2	94.00	92	94.50
Y_2O_3	5.00	4.5	5.30
TiO_2	0.08	0.05	0.15
Al_2O_3	0.05	0.01	0.15
CaO	0.05	0.01	0.10
Fe_2O_3	0.05	0.01	0.10
MgO	0.05	0.02	0.10
SiO_2	0.03	0.01	0.10

Yttrium stabilized Zirconia

Y94P

YTTRIUM STABILIZED ZIRCONIA

||

Y94P is Yttrium stabilized chemical Zirconia material with ZrO_2 + HfO_2 cumulative content of 94% minimum and Y_2O_3 content typically around 5%. It comes in a form of powder ranging from 0-1 mm.



Y94P

YTTRIUM STABILIZED ZIRCONIA

Remarks

Y94P is Yttrium stabilized chemical Zirconia material with ZrO_2+HfO_2 cumulative content of 94% minimum and Y_2O_3 content typically around 5%. It comes in a form of powder ranging from 0-1 mm.

Sizing

0 - 1 mm

BISQUE FIRED (PROCESS)	COLOURATION	BULK DENSITY
1050 C		5.7 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO_2+HfO_2	94.00	93	94.50
Y_2O_3	5.20	4.6	5.50
LOI 1025 degrees	3.00	1.0	5.00
Al_2O_3	0.20	0.1	0.35
TiO_2	0.10	0.05	0.20
Fe_2O_3	0.05	0.02	0.10
CaO	0.05	0.02	0.15
MgO	0.05	0.02	0.10
SiO_2	0.03	0.01	0.10

Yttrium stabilized Zirconia

Y94PP

YTTRIUM STABILIZED ZIRCONIA

- Y94PP is fully reprocessed chemical Yttrium stabilized Zirconia with ZrO_2+HfO_2 content of 94% minimum and Y_2O_3 content of around 5%.



Y94PP

YTTRIUM STABILIZED ZIRCONIA

Remarks

Y94PP is fully reprocessed chemical Yttrium stabilized Zirconia with ZrO_2+HfO_2 content of 94% minimum and Y_2O_3 content of around 5%.

BISQUE FIRED (PROCESS)	COLOURATION	BULK DENSITY
1050 C		~5.70.9g/cm ³

Chemical Composition & Physical Analysis

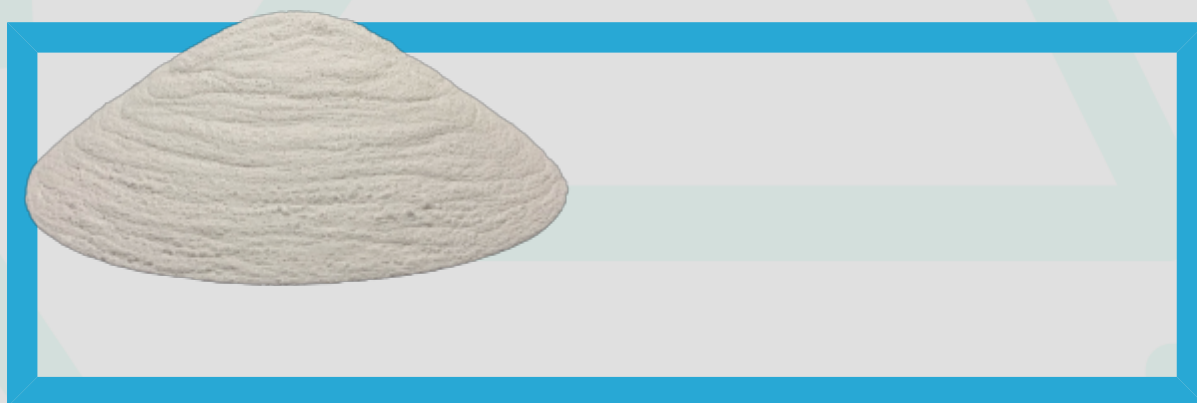
Name	Typical	Min %	Max %
ZrO_2+HfO_2	94.00	93.5	94.50
Y_2O_3	5.00	4.6	5.30
LOI 1000 Degrees Celsius	0.40	0.2	0.60
Al_2O_3	0.38	0.3	0.45
Na_2O	0.04	0.01	0.10
Fe_2O_3	0.03	0.01	0.10
SiO_2	0.03	0.01	0.05

Yttrium stabilized Zirconia

Y2O3

YTTRIUM STABILIZED ZIRCONIA

|| 0



Y2O3

YTTRIUM STABILIZED ZIRCONIA

Remarks

0

FIRED (PROCESS)	COLOURATION	BULK DENSITY
900 C		00.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	49.66	48	51.00
Y ₂ O ₃	46.03	45	47.00
ZrO ₂ +HfO ₂	2.15	2.10	2.20
LOSS	1.95	0.9	2.10
Na ₂ O	0.06	0.05	0.07
Fe ₂ O ₃	0.02	0.01	0.03

Yttrium stabilized Zirconia

YSZ90

YTTRIUM STABILIZED ZIRCONIA

- || YSZ90 is a fused Yttrium stabilized Zirconia material with ZrO_2 content of around 90% and Y_2O_3 content of around 8%.



YSZ90

YTTRIUM STABILIZED ZIRCONIA

Remarks

YSZ90 is a fused Yttrium stabilized Zirconia material with ZrO_2 content of around 90% and Y_2O_3 content of around 8%.

Sizing

0 - 1 mm.

ELECTRODE FUSED (PROCESS)	COLOURATION	BULK DENSITY
2100 C		~5 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO_2+HfO_2	91.00	89	93.00
Y_2O_3	8.50	8	9.00
Gd_2O_3	0.45	0.3	0.60
P_2O_5	0.25	0.2	0.40
TiO_2	0.10	0.05	0.20
Free Fe	0.05	0.03	0.10
MgO	0.05	0.2	0.10
Fe_2O_3	0.03	0.01	0.10

Yttrium stabilized Zirconia

YZr93YL

YTTRIUM STABILIZED ZIRCONIA

|| 0




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YZr93YL

YTTRIUM STABILIZED ZIRCONIA

Remarks

0

SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C		00.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	90.66	89.6	91.00
Y ₂ O ₃	8.09	7.59	8.50
SiO ₂	0.57	0.45	0.63
LOSS	0.25	0.1	0.35
Al ₂ O ₃	0.09	0.05	0.13
Na ₂ O	0.07	0.04	0.10
TiO ₂	0.05	0.03	0.07

Yttrium stabilized Zirconia

YZr93Y

YTTRIUM STABILIZED ZIRCONIA

|| 0




—

YZr93Y

YTTRIUM STABILIZED ZIRCONIA

Remarks

0

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		00.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	93.00	92.5	93.50

Yttrium stabilized Zirconia

YZr93WL

YTTRIUM STABILIZED ZIRCONIA

- YZr93WL is a Yttrium stabilized Zirconia material with typical Y_2O_3 content of 7% and ZrO_2+HfO_2 cumulative content of around 90%



YZr93WL

YTTRIUM STABILIZED ZIRCONIA

Remarks

YZr93WL is a Yttrium stabilized Zirconia material with typical Y_2O_3 content of 7% and $ZrO_2 + HfO_2$ cumulative content of around 90%

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C	●	10.9g/cm ³

Chemical Composition & Physical Analysis

Yttrium stabilized Zirconia

YZr93W

YTTRIUM STABILIZED ZIRCONIA

|| 0




YZr93W

YTTRIUM STABILIZED ZIRCONIA

Remarks

0

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	90.00	88	91.00
Y ₂ O ₃	7.60	6.6	8.60
SiO ₂	0.60	0.3	0.90
LOI	0.37	0	0.40

NZ95

MAGNESIA STABILIZED ZIRCONIA

- ■ NZ95 is Magnesia stabilized Zirconia material with ZrO_2 content of 95% minimum and MgO content of 2.4%. Materials come in a random lumpy form.




NZ95

MAGNESIA STABILIZED ZIRCONIA

Remarks

NZ95 is Magnesia stabilized Zirconia material with ZrO₂ content of 95% minimum and MgO content of 2.4%. Materials come in a random lumpy form.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		50.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	95.50	94.5	96.50
MgO	2.40	2.2	2.60
SiO ₂	0.50	0.2	1.10
Fe ₂ O ₃	0.20	0.1	0.30
TiO ₂	0.10	0.05	0.20
Al ₂ O ₃	0.10	0.05	0.40
CaO	0.05	0.01	0.10
K ₂ O	0.05	0.01	0.10
Na ₂ O	0.03	0.01	0.05

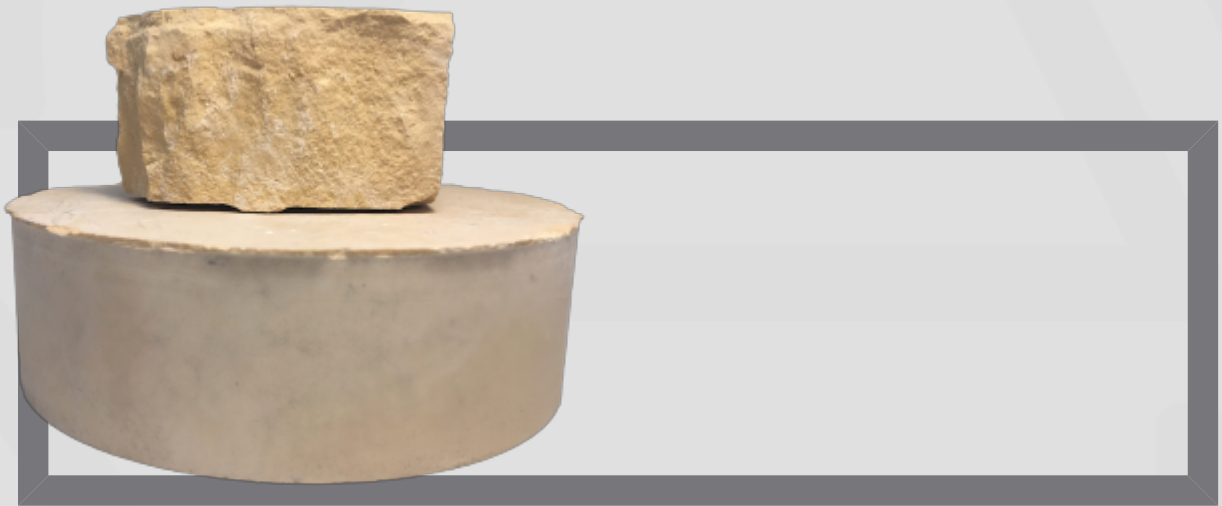
Magnesia stabilized Zirconia

SG95

MAGNESIA STABILIZED ZIRCONIA



SG95 is Magnesia stabilized Zirconia material with ZrO_2 content of 95% minimum.




SG95

MAGNESIA STABILIZED ZIRCONIA

Remarks

SG95 is Magnesia stabilized Zirconia material with ZrO₂ content of 95% minimum.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~ 4.5 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	95.50	95	96.00
MgO	1.80	1.4	2.00
SiO ₂	0.60	0.3	0.90
CaO	0.35	0.1	0.50
Fe ₂ O ₃	0.35	0.1	0.50
Al ₂ O ₃	0.25	0.1	0.50
TiO ₂	0.25	0.1	0.40
Na ₂ O	0.10	0.05	0.15
K ₂ O	0.05	0.02	0.10

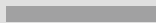
Magnesia stabilized Zirconia

SG95(0-5)

MAGNESIA STABILIZED ZIRCONIA



SG95(0-5) is Magnesia stabilized Zirconia material obtained crushing SG95 grade with ZrO_2 95% minimum and MgO content ranging around 1.8%.




SG95(0-5)

MAGNESIA STABILIZED ZIRCONIA

Remarks

SG95(0-5) is Magnesia stabilized Zirconia material obtained crushing SG95 grade with ZrO₂ 95% minimum and MgO content ranging around 1.8%.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		50.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	95.50	95	96.00
MgO	1.80	1.4	2.00
SiO ₂	0.60	0.3	0.90
Fe ₂ O ₃	0.35	0.1	0.50
CaO	0.35	0.1	0.50
TiO ₂	0.25	0.1	0.40
Al ₂ O ₃	0.25	0.1	0.50
Na ₂ O	0.10	0.05	0.15
K ₂ O	0.05	0.02	0.10

Magnesia stabilized Zirconia

SG95F

MAGNESIA STABILIZED ZIRCONIA

- SG95F is Magnesia stabilized Zirconia material with typical $ZrO_2 + HfO_2$ content of 95% and Magnesia Oxide content of around 1.7%.



SG95F

MAGNESIA STABILIZED ZIRCONIA

Remarks

SG95F is Magnesia stabilized Zirconia material with typical ZrO_2+HfO_2 content of 95% and Magnesia Oxide content of around 1.7%.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~5 0.9g/cm ³

Chemical Composition & Physical Analysis

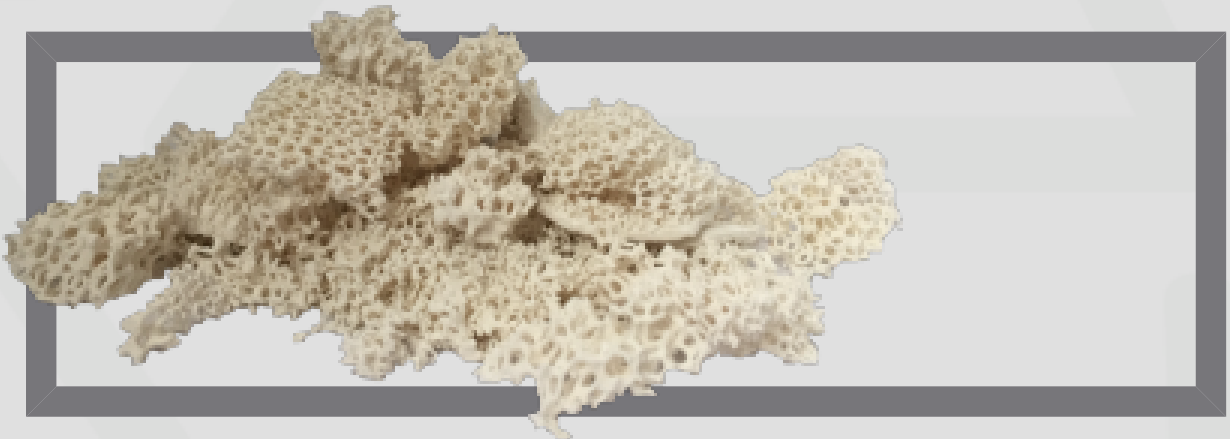
Name	Typical	Min %	Max %
ZrO_2+HfO_2	95.50	95	96.00
MgO	1.80	1.4	2.00
SiO_2	0.60	0.3	0.90
Fe_2O_3	0.35	0.1	0.50
CaO	0.35	0.1	0.50
TiO_2	0.25	0.1	0.40
Al_2O_3	0.25	0.1	0.50
Na_2O	0.10	0.05	0.15
K_2O	0.05	0.02	0.10

W95

MAGNESIA STABILIZED ZIRCONIA



W95 grade is a sintered lumpy magnesia stabilized Zirconia material with ZrO_2 content of 96% minimum.



W95

MAGNESIA STABILIZED ZIRCONIA

Remarks

W95 grade is a sintered lumpy magnesia stabilized Zirconia material with ZrO₂ content of 96% minimum.

- (PROCESS)	COLOURATION	BULK DENSITY
-		4.6 0.9g/cm ³

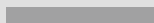
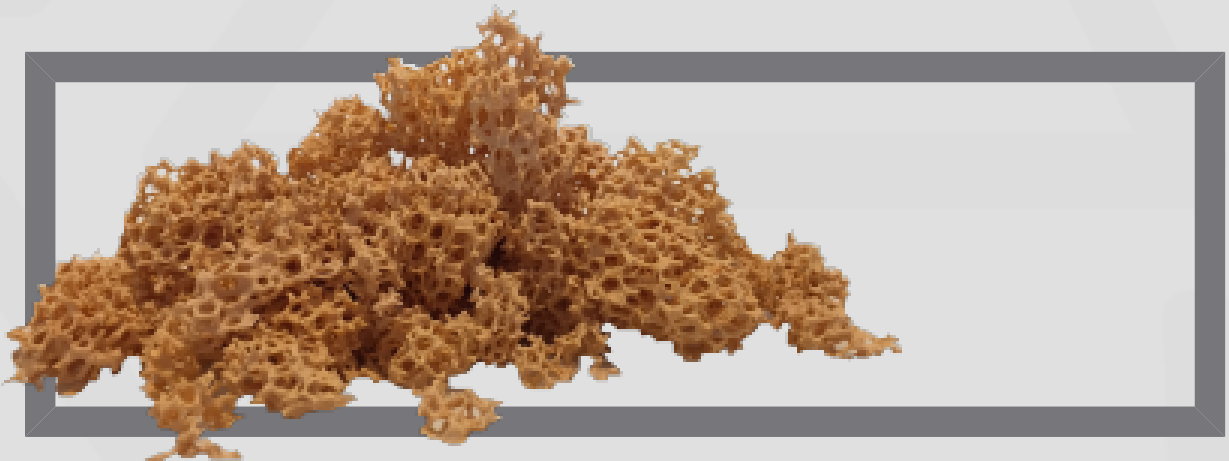
Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	96.00	95.5	96.50
MgO	2.80	2.6	3.00
SO ₃	0.23	0.15	0.30
TiO ₂	0.12	0.1	0.15
Fe ₂ O ₃	0.12	0.1	0.15
Na ₂ O	0.06	0.03	0.09
CaO	0.06	0.03	0.09
Al ₂ O ₃	0.05	0.01	0.10
SiO ₂	0.05	0.02	0.10

O95

MAGNESIA STABILIZED ZIRCONIA

- ■ O95 is Magnesia stabilized Zirconia material, which comes in random lumpy form sized from 0 to 10 cm and ZrO₂ content of 95% min.



Remarks

O95 is Magnesia stabilized Zirconia material, which comes in random lumpy form sized from 0 to 10 cm and ZrO₂ content of 95% min.

SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C		~4.6 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	95.50	95	96.00
MgO	2.60	2.5	2.80
SiO ₂	0.30	0.2	0.40
Fe ₂ O ₃	0.23	0.2	0.25
Al ₂ O ₃	0.15	0.1	0.20
TiO ₂	0.15	0.1	0.20
SO ₃	0.15	0.1	0.20
Na ₂ O	0.05	0.02	0.08
CaO	0.04	0.02	0.07
BaO	0.03	0.01	0.05

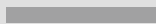
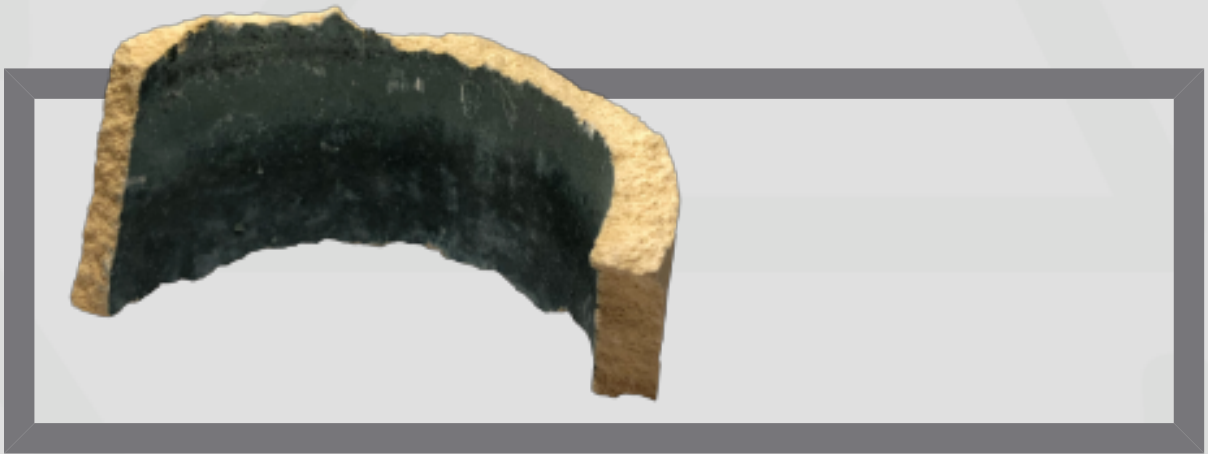
Magnesia stabilized Zirconia

ZR90CR

MAGNESIA STABILIZED ZIRCONIA



0



ZR90CR



MAGNESIA STABILIZED ZIRCONIA

Remarks

0

Sizing

0

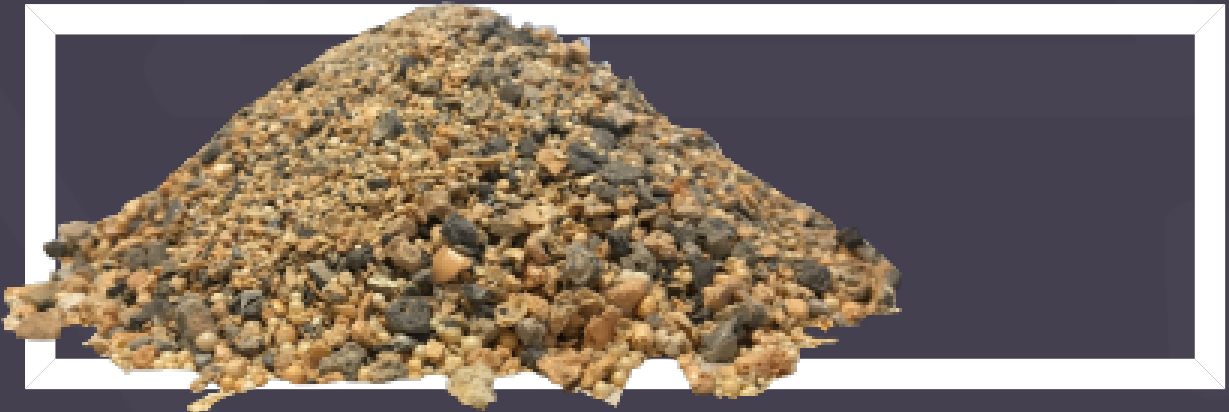
FIRED (PROCESS)	COLOURATION	BULK DENSITY
900 C	 	0.09g/cm ³

Chemical Composition & Physical Analysis

Z2R3F

OTHER HIGH ZIRCONIA MATERIALS

- ■ Z2R3F is fused high Zirconia raw materials which comes at ZrO_2 content at 97% minimum and SiO_2 content ranging from 1 to 2.5% maximum. Material is a mixture of bubble Zirconia and fused Zirconia grade.




Z2R3F

OTHER HIGH ZIRCONIA MATERIALS

Remarks

Z2R3F is fused high Zirconia raw materials which comes at ZrO₂ content at 97% minimum and SiO₂ content ranging from 1 to 2.5% maximum. Material is a mixture of bubble Zirconia and fused Zirconia grade.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~5 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	97.80	97	98.50
SiO ₂	1.30	0.8	2.50
Al ₂ O ₃	0.35	0.2	0.65
TiO ₂	0.17	0.15	0.20
Fe ₂ O ₃	0.05	0.03	0.15

Z2R0.5F

OTHER HIGH ZIRCONIA MATERIALS



Z2R0.5F is fused Zirconia material with Zirconia content of 97% minimum and SiO₂ max 2.5% and particle size range from 0 - 0.5 mm



Z2R0.5F


OTHER HIGH ZIRCONIA MATERIALS

Remarks

Z2R0.5F is fused Zirconia material with Zirconia content of 97% minimum and SiO₂ max 2.5% and particle size range from 0 - 0.5 mm

Sizing

0 - 0.5 mm

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		5.09g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	98.60	98	99.20
SiO ₂	0.60	0.15	1.00
Al ₂ O ₃	0.25	0.1	0.45
TiO ₂	0.15	0.1	0.20
Fe ₂ O ₃	0.05	0.01	0.15

Z2

OTHER HIGH ZIRCONIA MATERIALS



Z2 is electro fused Zirconia material which comes in the form of a fine powder sized from 3 to 25 microns.



Remarks

Z2 is electro fused Zirconia material which comes in the form of a fine powder sized from 3 to 25 microns.

Sizing

3 to 25 microns.

ELECTRODE FUSED (PROCESS)	COLOURATION	BULK DENSITY
2100 C		4.7 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	97.50	96.5	8.50
SiO ₂	2.00	1.5	2.50
Al ₂ O ₃	0.30	0.2	0.40
TiO ₂	0.17	0.1	0.20
Fe ₂ O ₃	0.13	0.1	0.20

Zr98DBR

OTHER HIGH ZIRCONIA MATERIALS

- ■ Zr98DBR is fused Zirconia material with typical ZrO_2 content of around 98% minimum and comes in sizing of pass 150 mesh.



Zr98DBR

OTHER HIGH ZIRCONIA MATERIALS

Remarks

Zr98DBR is fused Zirconia material with typical ZrO₂ content of around 98% minimum and comes in sizing of pass 150 mesh.

Sizing

pass 150 mesh

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~4.8 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	98.20	97.5	98.50
Nb ₂ O ₅	0.42	0.1	0.60
SiO ₂	0.40	0.1	0.60
Y ₂ O ₃	0.20	0.1	0.30
P ₂ O ₅	0.16	0.1	0.25
Ta ₂ O ₅	0.15	0.1	0.30
TiO ₂	0.11	0.05	0.20
Fe ₂ O ₃	0.10	0.05	0.30
Na ₂ O	0.02	0.01	0.05
Sc ₂ O ₃	0.02	0.01	0.03
Al ₂ O ₃	0.02	0.01	0.05

Zr90

OTHER HIGH ZIRCONIA MATERIALS



Zr90 is Zirconia material with typical cumulative ZrO_2+HfO_2 content above 90% which comes in the sizing of 0 to 3 mm and typical moisture content of max 5%.



Zr90

OTHER HIGH ZIRCONIA MATERIALS

Remarks

Zr90 is Zirconia material with typical cumulative ZrO_2+HfO_2 content above 90% which comes in the sizing of 0 to 3 mm and typical moisture content of max 5%.

Sizing

0 to 3 mm

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~4 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO_2+HfO_2	96.00	93	97.00
SiO_2	1.50	0.75	2.25
MgO	1.00	0.5	1.50
LOSS	0.50	0	1.00
Fe_2O_3	0.30	0.15	0.45
Al_2O_3	0.20	0.1	0.30
CaO	0.20	0.1	0.30

Zr79Y20

OTHER HIGH ZIRCONIA MATERIALS

- ■ Zr79Y20 is a fused Chemical Zirconia material with typical ZrO_2 content of 79% and Y_2O_3 content of 20%. Material comes in the form of coarse powder sized 0-1 mm.



Zr79Y20


OTHER HIGH ZIRCONIA MATERIALS

Remarks

Zr79Y20 is a fused Chemical Zirconia material with typical ZrO₂ content of 79% and Y₂O₃ content of 20%. Material comes in the form of coarse powder sized 0-1 mm.

Sizing

0 - 1 mm with cubic bits of Zirconia.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		4.0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	79.00	78.5	79.50
Y ₂ O ₃	20.50	20	21.00
LOI 1025°C	0.15	0.1	0.25
Fe ₂ O ₃	0.10	0.05	0.20
Na ₂ O	0.05	0.001	0.10
CaO	0.04	0.01	0.10
TiO ₂	0.03	0.01	0.10
P ₂ O ₅	0.02	0.01	0.05
SiO ₂	0.02	0.01	0.05
Al ₂ O ₃	0.02	0.01	0.05
K ₂ O	0.01	0.005	0.05
MgO	0.01	0.005	0.02

Z3H

OTHER HIGH ZIRCONIA MATERIALS



Z3H is fine fused Zirconia material with typical ZrO_2 content of 95% minimum.



Remarks

Z3H is fine fused Zirconia material with typical ZrO₂ content of 95% minimum.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		4.5 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	98.20	97.5	98.50
SiO ₂	0.90	0.5	1.50
Al ₂ O ₃	0.30	0.2	0.40
Fe ₂ O ₃	0.21	0.15	0.25
TiO ₂	0.18	0.15	0.25

HIS90

OTHER HIGH ZIRCONIA MATERIALS



HIS90 is fine fused High Zirconia raw material with cumulative ZrO_2+HfO_2 content of 90% minimum.



HIS90

OTHER HIGH ZIRCONIA MATERIALS

Remarks

HIS90 is fine fused High Zirconia raw material with cumulative ZrO_2+HfO_2 content of 90% minimum.

Sizing

Pass 325 mesh. Passing rate: 100% with 90% of particles within range of 3 to 25 microns.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		5.09g/cm ³

Chemical Composition & Physical Analysis

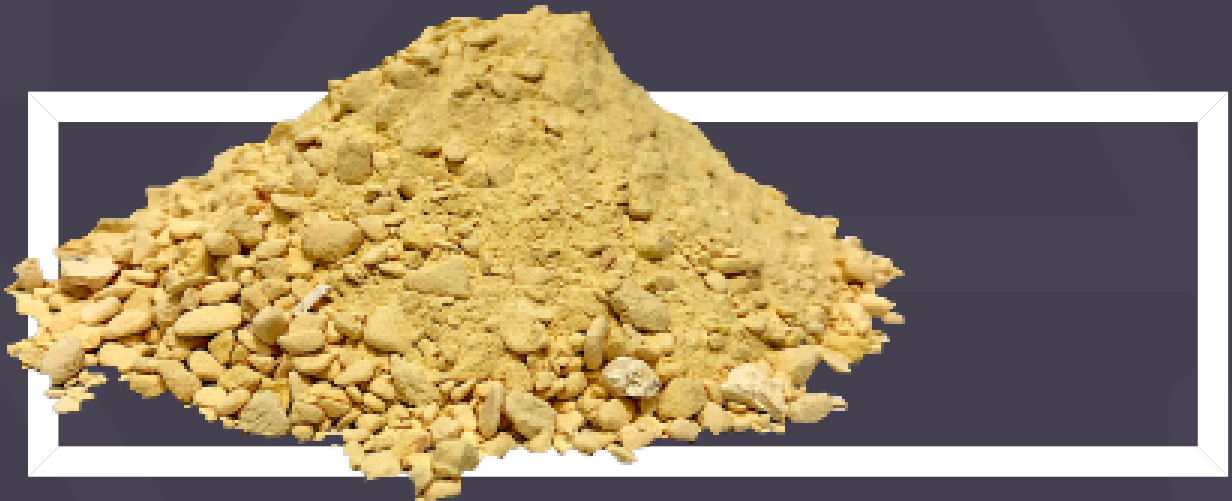
Name	Typical	Min %	Max %
ZrO_2+HfO_2	93.00	90	96.00
SiO_2	6.50	3	10.00
Al_2O_3	0.35	0.2	0.50
Fe_2O_3	0.30	0.1	0.50
TiO_2	0.18	0.1	0.25

MZr97

OTHER HIGH ZIRCONIA MATERIALS



MZr97 is fused Zirconia material with typical ZrO_2 content of 97%.



MZr97

OTHER HIGH ZIRCONIA MATERIALS

Remarks

MZr97 is fused Zirconia material with typical ZrO₂ content of 97%.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~ 4.6 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	97.50	96.5	98.50
Al ₂ O ₃	1.40	1.00	2.00
SiO ₂	0.55	0.3	0.80
Na ₂ O	0.25	0.1	0.40
TiO ₂	0.06	0.3	0.10

Calcium Stabilized Zirconia

CaZr93Cu

CALCIA STABILIZED ZIRCONIA



CaZr93Cu is Calcium stabilized Zirconia material with typical Zirconia content of 93%.




CaZr93Cu

CALCIA STABILIZED ZIRCONIA

Remarks

CaZr93Cu is Calcia stabilized Zirconia material with typical Zirconia content of 93%.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		4.2 0.9g/cm ³

Chemical Composition & Physical Analysis

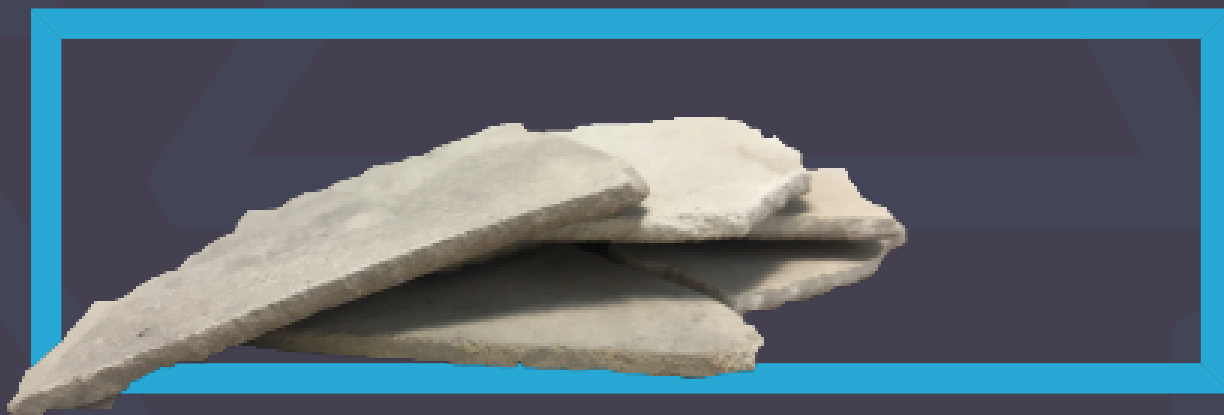
Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	88.00	86	90.00
Al ₂ O ₃	5.40	2.7	7.00
Y ₂ O ₃	2.30	1.15	3.45
CaO	2.10	1	3.00
SiO ₂	1.10	0.55	1.65
Fe ₂ O ₃	0.20	0.1	0.30
LOSS	0.10	0	0.20

Calcium Stabilized Zirconia

CaZr93PL

CALCIA STABILIZED ZIRCONIA

- CaZr93PL is a Calcium stabilized Zirconia plate material with ZrO_2 content of 90% minimum.



CaZr93PL

CALCIA STABILIZED ZIRCONIA

Remarks

CaZr93PL is a Calcia stabilized Zirconia plate material with ZrO₂ content of 90% minimum.

Sizing

Plates in typical thickness of 3 mm in random sizes 0 - 10 cm at longest edge.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~4.5 0.9g/cm ³

Chemical Composition & Physical Analysis

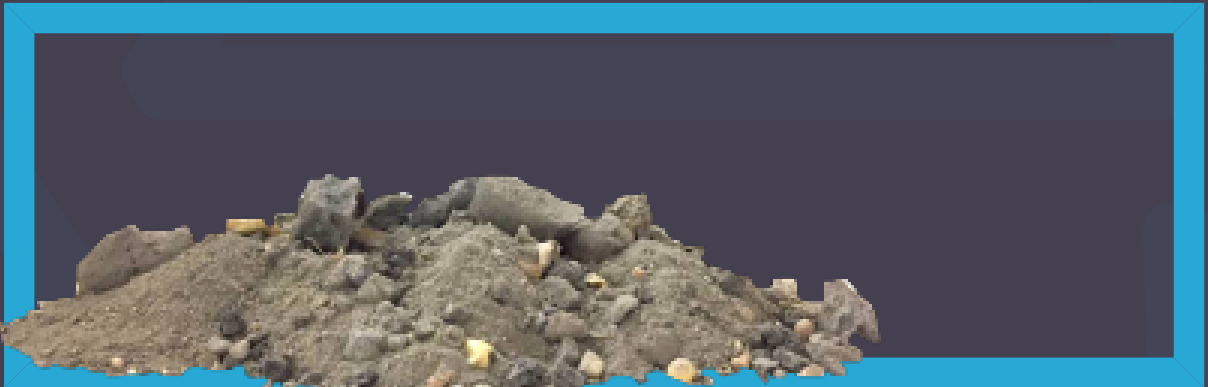
Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	94.00	93	94.50
CaO	3.20	2.7	3.70
Y ₂ O ₃	0.80	0.5	1.00
Al ₂ O ₃	0.70	0.50	1.00
TiO ₂	0.25	0.1	0.40
Fe ₂ O ₃	0.15	0.10	0.30
CeO ₂	0.10	0.05	0.20

CaZr85

CALCIA STABILIZED ZIRCONIA

||

CaZr85 is a Calcium stabilized Zirconia containing lumpy and powdered material with an average cumulative ZrO_2+HfO_2 content of 85%.




CaZr85

CALCIA STABILIZED ZIRCONIA

Remarks

CaZr85 is a Calcium stabilized Zirconia containing lumpy and powdered material with an average cumulative ZrO₂+HfO₂ content of 85%.

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		3.5 to 4.6 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
ZrO ₂ +HfO ₂	85.00	75	92.00
SiO ₂	7.00	6	9.00
CaO	3.20	2.5	4.00
Al ₂ O ₃	1.50	0.5	2.50
MgO	1.30	0.2	2.00
C	0.85	0.2	2.00
Fe ₂ O ₃	0.35	0.1	0.70
TiO ₂	0.20	0.1	0.30
Na ₂ O	0.05	0.02	0.20

AZ34

ALUMINA ZIRCON

- || AZ34 is a fused Alumina Zirconate material with ZrO_2 ranging from 34-48% and Al_2O_3 with 48% minimum. Material comes in the form of fine powder at the sizing of pass 200 mesh 75% minimum.



Remarks

AZ34 is a fused Alumina Zirconate material with ZrO_2 ranging from 34-48% and Al_2O_2 with 48% minimum. Material comes in the form of fine powder at the sizing of pass 200 mesh 75% minimum.

Sizing

Pass 200 mesh

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C	●	1.5 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al_2O_3	48.00	46	50.00
ZrO_2	37.00	34	45.00
TiO_2	2.00	1	2.50
SiO_2	0.75	0.5	1.00
Fe_2O_3	0.70	0.5	0.85
Na_2O	0.25	0.1	0.35

AZ30

ALUMINA ZIRCON

- || AZ30 is semi-fused Alumina Zirconate material with typical Zircon content in the area between 10 to 30%. It has fused and unfused portion.



Remarks

AZ30 is semi-fused Alumina Zirconate material with typical Zircon content in the area between 10 to 30%. It has fused and unfused portion.

Sizing

Pass 325 mesh

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~0.4g/cm ³ 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	60.00	40	70.00
SiO ₂	30.00	0	40.00
ZrO ₂ +HfO ₂	15.00	0	30.00
Others	3.00	2	4.00
TiO ₂	1.50	0.5	2.00
Fe ₂ O ₃	0.50	0	2.00

AZ30KR

ALUMINA ZIRCON

- ■ AZ30KR is Alumina Zirconia composite material with typical ZrO_2 content of 30%, which comes in the form of fine powder in the sizing of pass 200 mesh.



AZ30KR

ALUMINA ZIRCON

Remarks

AZ30KR is Alumina Zirconia composite material with typical ZrO_2 content of 30%, which comes in the form of fine powder in the sizing of pass 200 mesh.

Sizing

pass 200 mesh

SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C		~ 2.0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al_2O_3	49.00	47	51.00
ZrO_2+HfO_2	30.00	28	32.00
SiO_2	17.00	15	18.50
Fe_2O_3	1.10	0.5	1.70
TiO_2	1.10	0.5	1.70

SiO99

SILICA OXIDE



SiO99 is fused Silica material without cristoballite and SiO₂ content of 99.7% minimum.



Remarks

SiO99 is fused Silica material without cristoballite and SiO₂ content of 99.7% minimum.

Sizing

typical grain sizes 0-1; 1-3; 3-5 mm

- (PROCESS)	COLOURATION	BULK DENSITY
-		2.09g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
SiO ₂	99.70	99.5	99.80
Al ₂ O ₃	0.15	0.1	0.20
Fe ₂ O ₃	0.08	0.06	0.12
TiO ₂	0.03	0.02	0.05

DBM97

MAGNESIA



DBM97 is dead burt Magnesia brick material which was obtained from surplus inventories with typical MgO content of 97.5%.



Remarks

DBM97 is dead burt Magnesia brick material which was obtained from surplus inventories with typical MgO content of 97.5%.

Sizing

Standard brick sizes and Wedge brick sizes as obtained

SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C		3.00.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
MgO	97.60	97.0	97.80
CaO	1.10	0.8	1.40
Fe ₂ O ₃	0.60	0.5	0.70
SiO ₂	0.50	0.4	0.60
Al ₂ O ₃	0.20	0.15	0.25

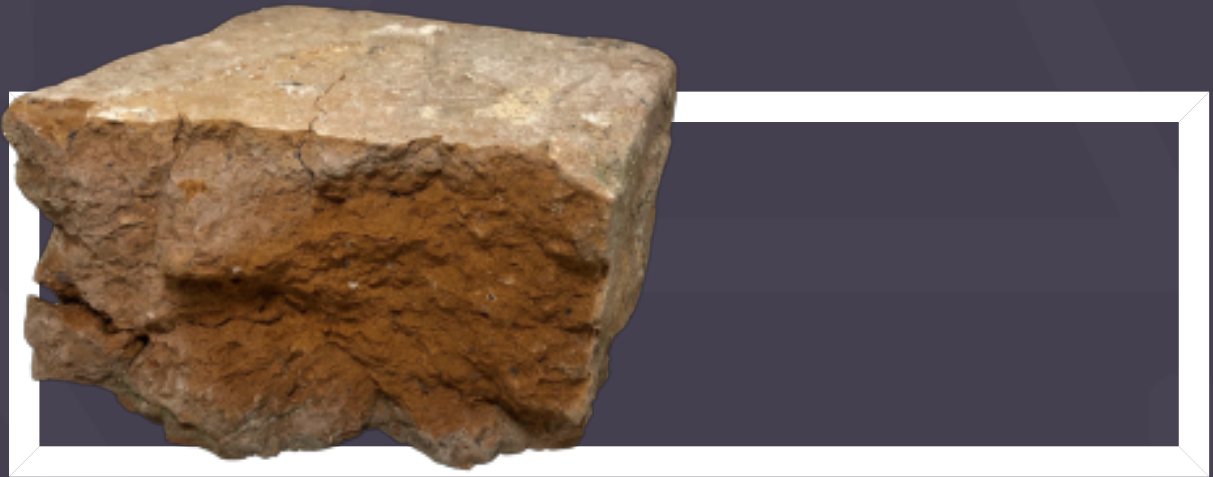
Magnesia

DBM94

MAGNESIA



DBM94 is a sintered Magnesia base material with typical Magnesia content around 92%.



DBM94

MAGNESIA

Remarks

DBM94 is a sintered Magnesia base material with typical Magnesia content around 92%.

Sizing

Randomly sized lumps 0 - 30 mm. Crushed and graded to typical sizes 0-1 mm; 1-3 mm; 3-5 mm.

SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C		2.20.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
MgO	91.50	91	92.00
LOSS	2.68	2.6	2.80
CaO	1.71	1.6	1.80
Al ₂ O ₃	1.56	1.5	1.60
SiO ₂	1.37	1.3	1.40
Fe ₂ O ₃	0.78	0.6	0.80
TiO ₂	0.06	0.05	0.07

Magnesia

MgO76

MAGNESIA



MgO76 is sintered Magnesia raw materials with typical MgO content of 76%.




Remarks

MgO76 is sintered Magnesia raw materials with typical MgO content of 76%.

Sizing

typical grain size 0-1; 1-3; 3-5 mm

- (PROCESS)	COLOURATION	BULK DENSITY
-		2.70.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
MgO	76.90	75	79.00
ZrO ₂ +HfO ₂	8.30	6	10.00
SiO ₂	6.00	5	8.00
SO ₃	3.80	2	5.00
Na ₂ O	1.60	1	2.50
CaO	0.70	0.3	1.00
Fe ₂ O ₃	0.30	0.1	0.50
Al ₂ O ₃	0.20	0.1	0.40
K ₂ O	0.20	0.1	0.40
TiO ₂	0.02	0.01	0.10

Magnesia

MgCr20

MAGNESIA



MgCr20 is Magnesia Chrome material with typical Chrome content of around of 20%



Remarks

MgCr20 is Magnesia Chrome material with typical Chrome content of around of 20%

Sizing

lumps 0-1; 1-3; 3-5 mm

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C	●	2.30.9g/cm ³

Chemical Composition & Physical Analysis

Magnesia

MAGAL80

MAGNESIA



0



MAGAL80

MAGNESIA

Remarks

0

Sizing

0

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		0.0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
MgO ₂	85.00	82	87.00
Al ₂ O ₃	12.00	11	13.00

Graphites

C99

GRAPHITES

|| 0



Remarks

0

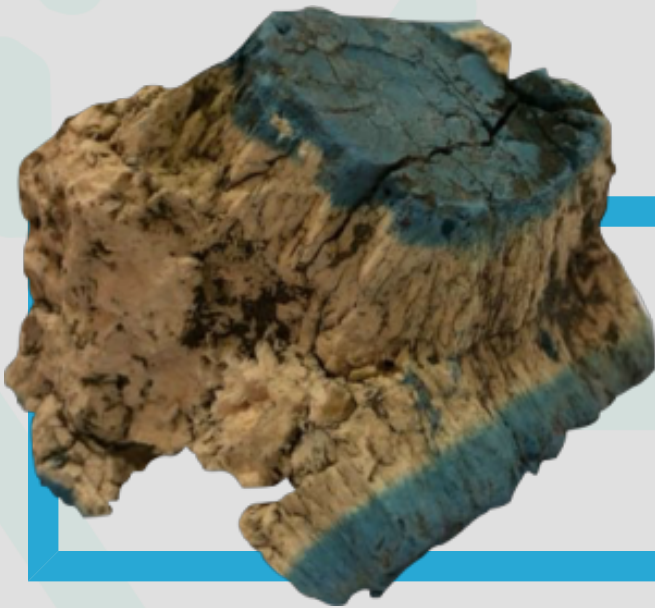
SINTERED (PROCESS)	COLOURATION	BULK DENSITY
1400 C	●	0.9g/cm ³

Chemical Composition & Physical Analysis

ZrO₂6CRF

LOW ZIRCONS

- || ZrO₂6CRF is Alumina Zircon Silicate base material with typical ZrO₂ content of 26% minimum.



ZrO26CRF


LOW ZIRCONS

Remarks

ZrO₂6CRF is Alumina Zircon Silicate base material with typical ZrO₂ content of 26% minimum.

Sizing

0-30 cm

FUSED (PROCESS)	COLOURATION	BULK DENSITY
1650 C		~2.5 0.9g/cm ³

Chemical Composition & Physical Analysis

Name	Typical	Min %	Max %
Al ₂ O ₃	47.50	45	49.00
ZrO ₂ +HfO ₂	28.00	26	30.00
SiO ₂	15.00	13	17.00
Na ₂ O	7.50	5	9.00
TiO ₂	0.10	0.05	0.30
Fe ₂ O ₃	0.10	0.05	0.30
CaO	0.05	0.02	0.20
MgO	0.05	0.02	0.20