

Brown Aluminum Oxide

FOR BONDED ABRASIVE

Type: AE-10

It is a kind of regular Brown Aluminum Oxide abrasive grains, the shape of the grain is blocky and edge sharp with the high loose bulk density. To get the kind of grains, we specially process the ingots, separate the magnetic material, and sieve the grains carefully to get a complete range of grit sizes.

As an abrasive, AE-10 is mainly used in making vitrified bonded grinding wheels. As loose grains, it is widely used for pressure blasting, surface finish and other general industrial applications.



Typical Chemical Analysis

Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	SiO ₂	CaO
95.70%	0.12%	2.66%	1.5%	0.22%

Physical Properties

Color	Dark brown
Shape	Blocky, tough and sharp
Crystal Form	Alpha-alumina trigonal system
True Specific Gravity	3.96 g/cm ³
Hardness	2090 Knoop scale; 9.0 Mohs scale
Melting Temperature	About 2050 °C
Magnetic Material	0.0076%
Toughness	50.46
Hydrophilic	34.00

Grit Size Available (F)

12	14	16	20	22	24	30	36	40	46	54	60	70	80	90	100	120	150	180	220
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Particle Size Distribution (PSD)

PSD According to ISO, ANSI, FEPA and JIS.

Packing Way Selection

a. In 25kg plastic woven bags.
b. In 1000kg big bag.
c. 40 x 25kg plastic woven bags in one big bag.
d. 40 x 25kg plastic woven bags on pallet.
e. 40 x 25kg paper bags on pallet.
f. According to client's special requirement.



The abrasive grains of this products has very sharp shape, after good dust collecting, impurity and strongly magnetism material removing, carefully sieve classifying, the grains is suitable for making resin Bonded Abrasive like cutting wheel, flex wheel and so on.

Meanwhile this type of grains can do very well on various polishing application, such as glass carving, rust removing, jean cloth grindin.

Typical Chemical Analysis

Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	SiO ₂	CaO
95.65%	0.07%	2.69%	0.72%	0.23%

Physical Properties

Color	Dark brown
Shape	Very Sharp
Crystal Form	Alpha-alumina trigonal system
True Specific Gravity	3.85 g/cm ³
Hardness	2090 Knoop scale; 9.0 Mohs scale
Melting Temperature	About 2050 °C
Magnetic Material	0.0076%

Bulk Density Test Value (g/cm³)

Grit No	F12	F14	F16	F20	F22	F24	F30	F36	F40	F46
B.D	1.83	1.80	1.78	1.76	1.76	1.74	1.72	1.70	1.67	1.65
Grit No	F54	F60	F70	F80	F90	F100	F120	F150	F180	F220
B.D	1.63	1.61	1.58	1.55	1.55	1.52	1.49	1.47	1.45	1.44

Grit Size Available (F)

12	14	16	20	22	24	30	36	40	46	54	60	70	80	90	100	120	150	180	220
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Particle Size Distribution (PSD)

PSD According to ISO, ANSI, FEPA and JIS.

Packing Way Selection

a. In 25kg plastic woven bags.
b. In 1000kg big bag.
c. 40 x 25kg plastic woven bags in one big bag.
d. 40 x 25kg plastic woven bags on pallet.
e. 40 x 25kg paper bags on pallet.
f. According to client's special requirement.



Type: AE-17T

It is one kind of specially Brown Aluminium Oxide grain for abrasives application. The lumps that we used to be broken the grain is smelted by the different type of furnace, it is called "tilting furnace". This kind of product have the very small crystal in every abrasives grain, the toughness and anti-impact ability is much better than AE-17, but the cost is much lower than AE-17H. It is suitable for making vitrified bonded grinding wheels.

Typical Chemical Analysis

Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	SiO ₂	CaO
96.40%	0.12%	2.25%	0.65%	0.22%

Physical Properties

Color	Dark brown
Shape	Blocky, tough and sharp
Crystal Form	Alpha-alumina trigonal system
True Specific Gravity	3.96 g/cm ³
Hardness	2090 Knoop scale; 9.0 Mohs scale
Melting Temperature	About 2050 °C
Magnetic Material	0.0076%
Toughness	55.46

Bulk Density Test Value (g/cm³)

Grit No	F12	F14	F16	F20	F22	F24	F30	F36	F40	F46
B.D	1.98	1.97	1.96	1.91	1.91	1.91	1.90	1.85	1.80	1.80
Grit No	F54	F60	F70	F80	F90	F100	F120	F150	F180	F220
B.D	1.75	1.75	1.75	1.74	1.73	1.73	1.73	1.70	1.69	1.64

Grit Size Available (F)

12	14	16	20	22	24	30	36	40	46	54	60	70	80	90	100	120	150	180	220
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Particle Size Distribution (PSD)

PSD According to ISO, ANSI, FEPA and JIS.

Packing Way Selection

a. In 25kg plastic woven bags.
b. In 1000kg big bag.
c. 40 x 25kg plastic woven bags in one big bag.
d. 40 x 25kg plastic woven bags on pallet.
e. 40 x 25kg paper bags on pallet.
f. According to client's special requirement.

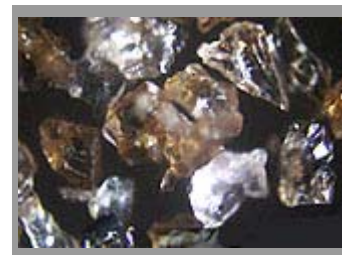


Type: AE-17HM

中温煅烧

It is one kind of Brown Aluminium Oxide grains with blocky grain shape and high bulk density. To get this kind of product, we treat the regular grains at a medium high temperature to give a light blue colour, the purpose is to renovate the crack on the surface and interior of crystal and then to improve the toughness and durability of the grains.

As an abrasive, the AE-17HM is mainly used in making vitrified and organic bonded grinding wheels. The cost of AE-17HM is more economic than AE-17H.



Typical Chemical Analysis

Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	SiO ₂	CaO
95.84%	0.06%	2.40%	0.93%	0.22%

Physical Properties

Color	Light blue
Shape	Blocky, tough and sharp
Crystal Form	Alpha-alumina trigonal system
True Specific Gravity	3.96 g/cm ³
Hardness	2090 Knoop scale; 9.0 Mohs scale
Melting Temperature	About 2050 °C
Magnetic Material	0.0076%
Toughness	59.78
Hydrophilic	58.00

Bulk Density Test Value (g/cm³)

Grit No	F12	F14	F16	F20	F22	F24	F30	F36	F40	F46
B.D	1.98	1.97	1.96	1.91	1.91	1.91	1.90	1.85	1.80	1.80
Grit No	F54	F60	F70	F80	F90	F100	F120	F150	F180	F220
B.D	1.75	1.75	1.75	1.74	1.73	1.73	1.73	1.70	1.69	1.64

Grit Size Available (F)

8	12	14	16	20	22	24	30	36	40	46
54	60	70	80	90	100	120	150	180	220	

Particle Size Distribution (PSD)

PSD According to ISO, ANSI, FEPA and JIS.

Packing Way Selection

a. In 25kg plastic woven bags.
b. In 1000kg big bag.
c. 40 x 25kg plastic woven bags in one big bag.
d. 40 x 25kg plastic woven bags on pallet.
e. 40 x 25kg paper bags on pallet.
f. According to client's special requirement.



Type: AE-17H

高温煅烧

It is one kind of Brown Aluminium Oxide grains with blocky grain shape and high bulk density. To get this kind of product, we calcine the regular grains at a high temperature to give a blue colour, the purpose is to renovate the crack on the surface and interior of crystal and then to improve the toughness and durability of the grains.

As an abrasive, the AE-17H is mainly used in making vitrified and organic bonded grinding wheels for working in heat sensitive metals and alloys.



Typical Chemical Analysis

Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	SiO ₂	CaO
95.84%	0.06%	2.40%	0.93%	0.23%

Physical Properties

Color	Blue
Shape	Blocky, tough and sharp
Crystal Form	Alpha-alumina trigonal system
True Specific Gravity	3.96 g/cm ³
Hardness	2090 Knoop scale; 9.0 Mohs scale
Melting Temperature	About 2050 °C
Magnetic Material	0.0076%
Toughness	63.17
Hydrophilic	75.00

Bulk Density Test Value (g/cm³)

Grit No	F12	F14	F16	F20	F22	F24	F30	F36	F40	F46
B.D	1.98	1.97	1.96	1.91	1.91	1.91	1.90	1.85	1.80	1.80
Grit No	F54	F60	F70	F80	F90	F100	F120	F150	F180	F220
B.D	1.75	1.75	1.75	1.74	1.73	1.73	1.73	1.70	1.69	1.64

Grit Size Available (F)

8	12	14	16	20	22	24	30	36	40	46	54	60	70	80	90
100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	

Particle Size Distribution (PSD)

PSD According to ISO, ANSI, FEPA and JIS.

Packing Way Selection

a. In 25kg plastic woven bags.
b. In 1000kg big bag.
c. 40 x 25kg plastic woven bags in one big bag.
d. 40 x 25kg plastic woven bags on pallet.
e. 40 x 25kg paper bags on pallet.
f. According to client's special requirement.



AE-20 is a kind of regular Brown Aluminum Oxide abrasive grains, the shape of the grain is angular and edge sharp, combined with blocky grain shape and sharp grain shape. With the medium loose bulk density. To get the kind of grains, we specially process the ingots, separate the magnetic material, and sieve the grains carefully to get a complete range of grit sizes.

As an abrasive, AE-20 is mainly used in making organic bonded grinding wheels, resin bonded grinding wheels and polishing stones. As loose grains, it is widely used for pressure blasting, surface finish and other general industrial applications.

Typical Chemical Analysis

Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	SiO ₂	CaO
95.70%	0.12%	2.66%	0.98%	0.22%

Physical Properties

Color	Dark brown
Shape	Blocky, tough and sharp
Crystal Form	Alpha-alumina trigonal system
True Specific Gravity	3.96 g/cm ³
Hardness	2090 Knoop scale; 9.0 Mohs scale
Melting Temperature	About 2050 °C
Magnetic Material	0.0076%
Toughness	50.46
Hydrophilic	34.00

Bulk Density Test Value (g/cm³)

Grit No	F12	F14	F16	F20	F22	F24	F30	F36	F40	F46
B.D	1.94	1.91	1.90	1.87	1.84	1.84	1.81	1.79	1.75	1.75
Grit No	F54	F60	F70	F80	F90	F100	F120	F150	F180	F220
B.D	1.72	1.72	1.69	1.65	1.61	1.61	1.59	1.57	1.56	1.52

Grit Size Available (F)

12	14	16	20	22	24	30	36	40	46	54	60	70	80	90	100	120	150	180	220
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Particle Size Distribution (PSD)

PSD According to ISO, ANSI, FEPA and JIS.

Packing Way Selection

a. In 25kg plastic woven bags.
b. In 1000kg big bag.
c. 40 x 25kg plastic woven bags in one big bag.
d. 40 x 25kg plastic woven bags on pallet.
e. 40 x 25kg paper bags on pallet.
f. According to client's special requirement.



The grains of this kind of product crashed by ball mill machine, its grain shape is more blocky than rolling machine made grains, but its bulk density is less than BMK machine made grains. With the medium loose bulk density, and after wind blowing dust collection way, strong magnetism removing, very carefully sieve classifying, this kind of abrasive grain normally can match the various bonded Abrasives Products applications.

Typical Specification (F30)

Chemical	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	SiO ₂
	95.52%	0.08%	2.68%	0.92%
Bulk Density	1.76g/cm ³			
Magnets	0.0076%			

Grit Sizes (F)

8	12	14	16	20	22	24	30	36	40	46	54	60	70	80	90	100
120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000	2500

Bulk Density Test Value (g/cm³)

Grit No	F12	F14	F16	F20	F22	F24	F30	F36	F40	F46
B.D	1.94	1.91	1.90	1.87	1.84	1.84	1.81	1.79	1.75	1.75
Grit No	F54	F60	F70	F80	F90	F100	F120	F150	F180	F220
B.D	1.72	1.72	1.69	1.65	1.61	1.61	1.59	1.57	1.56	1.52

Particle Size Distribution (PSD)

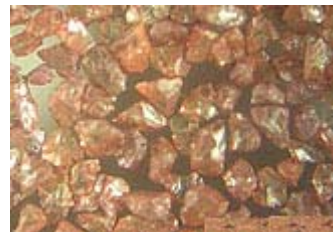
PSD According to ISO, ANSI, FEPA and JIS.

Packing Way Selection

a. In 25kg plastic woven bags.
b. In 1000kg big bag.
c. 40 x 25kg plastic woven bags in one big bag.
d. 40 x 25kg plastic woven bags on pallet.
e. 40 x 25kg paper bags on pallet.
f. According to client's special requirement.



AHMCF type aluminum oxide is made by coating the ferric oxide on the surface of the calcined aluminum oxide grains, the result of this kind of processing improve the grain size surface area ratio, hydrophilic ability and grinding efficiency, also the grain toughness improved. AHMCF type is widely used in making premium quality bonded tools, cutting wheel and high load grinding wheels.



Typical Chemical Analysis

Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	SiO ₂	CaO
96.21%	0.05%	2.77%	1.18%	0.25%

Grit Size Available (F)

16	20	24	30	36	40	46	54	60	70	80	90
100	120	150	180	220	240	280	320	360	400	500	600

Particle Size Distribution (PSD)

PSD According to ISO, ANSI, FEPA and JIS

Packing Way Selection

- In 25kg plastic woven bags.
- In 1000kg big bag.
- 40 x 25kg plastic woven bags in one big bag.
- 40 x 25kg plastic woven bags on pallet.
- 40 x 25kg paper bags on pallet.
- According to client's special requirement.



Brown Aluminum Oxide

FOR COATED ABRASIVE

Type: AP-17

It is one type of non-calcined Brown Fused Aluminium Oxide grain for Coated Abrasive application, the grain shape is very sharp, the strip and needle shape are well kicked out of the grains. With the concentrated size distribution and dust collected by well water washing, It can be used for producing all kinds of Coated Abrasives Products, such as sand paper, cloth, rolls, belts, etc. Our product is produced strictly based on the FEPA standard.

Typical Chemical Analysis

Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	SiO ₂	CaO	MgO
95.56%	0.08%	2.72%	1.05%	0.20%	0.25%

Physical Properties

Color	Red Brown
Shape	Very Sharp
Crystal Form	Alpha-alumina trigonal system
True Specific Gravity	3.96 g/cm ³
Hardness	2090 Knoop scale; 9.0 Mohs scale
Melting Temperature	About 2050 oC
Magnetic Material	0.0076%
Hydrophile	86mm
Cleanness	26ppm
Toughness	67.15

Bulk Density Test Value (g/cm³)

Grit No	P12	P16	P20	P24	P30	P36	P40	P50
B.D	1.93	1.89	1.86	1.82	1.79	1.77	1.75	1.73
Grit No	P60	P80	P100	P120	P150	P180	P220	
B.D	1.69	1.66	1.64	1.61	1.59	1.58	1.56	

Grit Size Available (P)

12	16	20	24	30	36	40	50	60	80	100	120	150	180	220
240	280	320	360	400	500	600	800	1000	1200	1500	1800	2000	2500	

Particle Size Distribution (PSD)

According to FEPA – Standard 43-1984 R 1993

Packing Way Selection

a. In 25kg plastic woven bags.
b. In 1000kg big bag.
c. 40 x 25kg plastic woven bags in one big bag.
d. 40 x 25kg plastic woven bags on pallet.
e. 40 x 25kg paper bags on pallet.
f. According to client's special requirement.



Type: AP-17H

煅烧

This type of Brown Fused Aluminium grain is made from Ap-17, it is calcined at 1000oC-1300oC, the grit inside crack will be well repaired after heating, the toughness also will be improved after heating. Then the grits will be well washed and carefully sieving again to kicked off the needle and flake shape . It is used for making high quality Coated Abrasives Products like abrasive waterproof paper, sanding cloth, sanding belt, flap wheel and so on.

Typical Chemical Analysis

Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	SiO ₂	CaO	MgO
95.68%	0.08%	2.45%	0.67%	0.20%	0.18%

Physical Properties

Color	Blue
Shape	Sharp
Crystal Form	Alpha-alumina trigonal system
True Specific Gravity	3.96 g/cm ³
Hardness	2090 Knoop scale; 9.0 Mohs scale
Melting Temperature	About 2050 oC
Magnetic Material	0.0076%
Hydrophile	124mm
Cleanness	24ppm
Toughness	80.26

Bulk Density Test Value (g/cm³)

Grit No	P12	P16	P20	P24	P30	P36	P40	P50
B.D	1.66	1.89	1.86	1.82	1.79	1.77	1.75	1.93
Grit No	P60	P80	P100	P120	P150	P180	P220	
B.D	1.73	1.69	1.64	1.61	1.59	1.58	1.56	

Grit Size Available (P)

12	16	20	24	30	36	40	50	60	80	100	120	150	180	220
240	280	320	360	400	500	600	800	1000	1200	1500	1800	2000	2500	

Particle Size Distribution (PSD)

According to FEPA – Standard 43-1984 R 1993

Packing Way Selection

a. In 25kg plastic woven bags.
b. In 1000kg big bag.
c. 40 x 25kg plastic woven bags in one big bag.
d. 40 x 25kg plastic woven bags on pallet.
e. 40 x 25kg paper bags on pallet.
f. According to client's special requirement.



Type: AHMCP

镀衣磨料

AHMCP type aluminum oxide is made by coating the ferric oxide on the surface of the calcined aluminum oxide grains, the result of this kind of processing improve the grain size surface area ratio, hydrophilic ability and grinding efficiency, also the grain toughness improved. AHMCP type is widely used in making high speed sanding belt as well as premium quality coated abrasive products.

Typical Chemical Analysis

Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	SiO ₂	CaO
95.57%	0.06%	2.74%	1.14%	0.24%

Grit Size Available (P)

16	20	24	30	36	40	50	60	80	100	120
150	180	220	240	280	320	360	400	500	600	

Particle Size Distribution (PSD)

PSD According to ISO, ANSI, FEPA and JIS

Packing Way Selection

a. In 25kg plastic woven bags.
b. In 1000kg big bag.
c. 40 x 25kg plastic woven bags in one big bag.
d. 40 x 25kg plastic woven bags on pallet.
e. 40 x 25kg paper bags on pallet.
f. According to client's special requirement.



Brown Aluminum Oxide

FOR BLASTING MEDIA

Type: A-10B

The abrasive grains of this products has angular shape and sharp-edged hem, after good dust collecting, impurity and strongly magnetism material removing, carefully sieve classifying, the grains can do very well on various polishing application, such as glass carving, rust removing, jean cloth grinding and also suitable for making Bonded Abrasive like cutting wheel and so on.

Typical Chemical Analysis

Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	SiO ₂	CaO
95.65%	0.07%	2.69%	0.72%	0.23%

Physical Properties

Color	Dark brown
Shape	Blocky, tough and sharp
Crystal Form	Alpha-alumina trigonal system
True Specific Gravity	3.85 g/cm ³
Hardness	2090 Knoop scale; 9.0 Mohs scale
Melting Temperature	About 2050 °C
Magnetic Material	0.0076%

Bulk Density Test Value (g/cm³)

Grit No	F12	F14	F16	F20	F22	F24	F30	F36	F40	F46
B.D	1.83	1.80	1.78	1.76	1.76	1.74	1.72	1.70	1.67	1.65
Grit No	F54	F60	F70	F80	F90	F100	F120	F150	F180	F220
B.D	1.63	1.61	1.58	1.55	1.55	1.52	1.49	1.47	1.45	1.44

Grit Size Available (F)

12	14	16	20	22	24	30	36	40	46	54	60	70	80	90	100	120	150	180	220
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Particle Size Distribution (PSD)

PSD According to ISO, ANSI, FEPA and JIS.

Packing Way Selection

a. In 25kg plastic woven bags.
b. In 1000kg big bag.
c. 40 x 25kg plastic woven bags in one big bag.
d. 40 x 25kg plastic woven bags on pallet.
e. 40 x 25kg paper bags on pallet.
f. According to client's special requirement.



The abrasive grains of this products crashed by rolling machine, with the sharp-edged grain shape, after wind washing, strong magnetism removing, very carefully sieve classifying, this kind of abrasive grain presents very excellent working efficiency on class carving industry.

Typical Specification (F30)

Chemical	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	SiO ₂	CaO
	95.52%	0.08%	2.68%	0.92%	0.19%
Bulk Density	1.76g/cm ³				
Magnets	0.0076%				

Grit Sizes (F)

8	12	14	16	20	22	24	30	36	40	46	54	60	70	80	90	100
120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000	2500

Bulk Density Test Value (g/cm³)

Grit No	F12	F14	F16	F20	F22	F24	F30
B.D	1.83	1.80	1.78	1.76	1.76	1.74	1.72
Grit No	F36	F40	F46	F54	F60	F70	F80
B.D	1.70	1.67	1.65	1.63	1.61	1.58	1.55
Grit No	F90	F100	F120	F150	F180	F220	
B.D	1.55	1.52	1.49	1.47	1.45	1.44	



The grains of this kind of product crashed by ball mill machine, its grain shape is more blocky than rolling machine made grains, but its bulk density is less than AE-17 grains. With the medium loose bulk density, and after water washing, strong magnetism removing, very carefully sieve classifying, this kind of abrasive grain normally can match the various vitrified bond Abrasives Products applications

Typical Chemical Analysis

Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	SiO ₂	CaO
95.70%	0.12%	2.66%	0.98%	0.22%

Physical Properties

Color	Dark brown
Shape	Blocky, tough and sharp
Crystal Form	Alpha-alumina trigonal system
True Specific Gravity	3.96 g/cm ³
Hardness	2090 Knoop scale; 9.0 Mohs scale
Melting Temperature	About 2050 °C
Magnetic Material	0.0076%
Toughness	50.46
Hydrophilic	34.00

Bulk Density Test Value (g/cm³)

Grit No	F12	F14	F16	F20	F22	F24	F30	F36	F40	F46
B.D	1.94	1.91	1.90	1.87	1.84	1.84	1.81	1.79	1.75	1.75
Grit No	F54	F60	F70	F80	F90	F100	F120	F150	F180	F220
B.D	1.72	1.72	1.69	1.65	1.61	1.61	1.59	1.57	1.56	1.52

Grit Size Available (F)

12	14	16	20	22	24	30	36	40	46	54	60	70	80	90	100	120	150	180	220
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Particle Size Distribution (PSD)

PSD According to ISO, ANSI, FEPA and JIS.

Packing Way Selection

a. In 25kg plastic woven bags.
b. In 1000kg big bag.
c. 40 x 25kg plastic woven bags in one big bag.
d. 40 x 25kg plastic woven bags on pallet.
e. 40 x 25kg paper bags on pallet.
f. According to client's special requirement.



Type: A-20B

二级，对辊

We produce this kind of Brown Aluminium Oxide grain normally used in blasting or polishing applications, such as removal of oil, grease, dirt, loose mill scale, lacquer kicking off, cloth grinding, glass blasting and other applications. Usually we call it blasting grade BFA sand.

Typical Chemical Analysis

Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	SiO ₂
92.13%	2.38%	2.98%	2.10%

Physical Properties

Color	Dark brown
Shape	Blocky, tough and sharp
Crystal Form	Alpha-alumina trigonal system
True Specific Gravity	3.96 g/cm ³
Hardness	2090 Knoop scale; 9.0 Mohs scale
Melting Temperature	About 2050 °C

Grain Size Distribution

Loose grains.

Grit Sizes (F)

8	12	14	16	20	22	24	30	36	40	46	54
60	70	80	90	100	120	150	180	220	240	280	320

Bulk Density Test Value (g/cm³)

Grit No	F12	F14	F16	F20	F24	F30	F36	F40	F46
B.D	1.79-1.87	1.76-1.84	1.74-1.82	1.72-1.80	1.70-1.78	1.68-1.76	1.66-1.74	1.63-1.71	1.61-1.69
Grit No	F54	F60	F70	F80	F100	F120	F150	F180	F220
B.D	1.59-1.67	1.57-1.65	1.54-1.62	1.51-1.59	1.48-1.56	1.45-1.53	1.43-1.52	1.41-1.49	1.40-1.48

