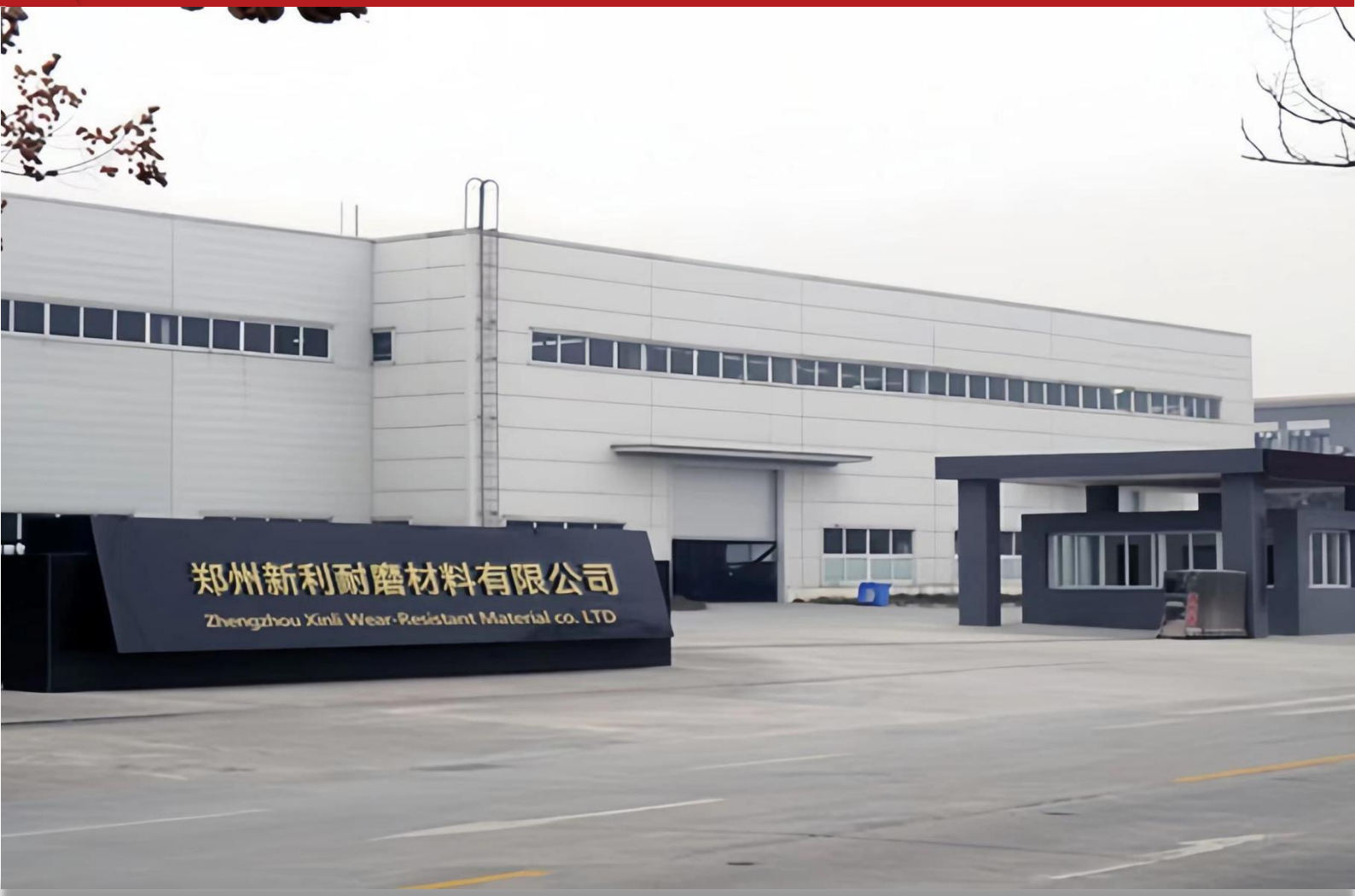
新利
XINLI

Zhengzhou Xinli Wear- Resistant Material Co.,Ltd

THE CONTENT

01 Company introduction



The predecessor of Zhengzhou Xinli Wear-Resistant Material Co.,Ltd.originated in 1996. It has been a professional manufacturer of sandblasting and polishing abrasive materials for more than 20 years, with an annual output of about 3,000 tons of micro powder.

The company has passed the ISO9001:2015 quality management system certification and independently owns the customs import and export rights. The company's products are widely used in sandblasting and grinding in semiconductor, hardware, machinery, electronics, glass, paint and other industries.

Certificate of Registration

This is to certify that

Zhengzhou Xinli Wear-resistant Materials Co., Ltd.

Unified social credit code: 91410105090936274B

Registered address:No.81, Wenhua Road, Jinshui District, Zhengzhou City, Henan Province, P.R.China

Audited address: Xinzhai Village, Liuzhai Town, Xinmi City, Zhengzhou City, Henan Province, P.R.China

Has been assessed as conforming to meet the requirements of

GB/T24001-2016/ISO14001:2015

for the scope of activities

Environmental management activities in the sales of wear-resistant materials (white corundum sand, white corundum micro powder, alumina powder, flat plate alumina powder, silicon green carbide micro powder, brown corundum micro powder, zirconia sand) by Zhengzhou Xinli Wear-resistant Materials Co., Ltd. located in Xinzhai Village, Liuzhai Town, Xinmi City, Zhengzhou City, Henan Province, P.R.China

Certificate No: IMSCG21E6941R0S

Issue Date: 28 October 2021 Valid until: 27 October 2024

Attention:Subject to adherence to the agreed ongoing audit programme, successful endorsement of certification following each audit and compliance with CI Regulations

Certification Range of product service excludes the revalent administrative verification that are not acquired the valid national rule,certification permission,3C certification

Signed for and on behalf of

General Manager

Annual surveillance audit for the second time

Annual surveillance audit for the third time

Note: According to the certification requirements, the interval between the annual surveillance audit and the last spot audit cannot exceed twelve months.

INTERNATIONAL MANAGEMENT SYSTEM CERTIFICATION GROUP (CHINA) CO.,LTD.Tel: 021-36755218 Fax: 021-36755218

Add: Room 19A, No.1, Qiancong Road, Shanghai Pilot Free Trade Zone, P.R. China

The certificate information is validity on: Our company Web: www.imf-certgroup.com. CNCA official web: www.cnca.gov.cn

Certificate of Registration

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Zhengzhou Xinli Wear-resistant Materials Co., Ltd.

Unified social credit code: 91410105090936274B

Registered address:No.81, Wenhua Road, Jinshui District, Zhengzhou City, Henan Province, P.R.China

Audited address: Xinzhai Village, Liuzhai Town, Xinmi City, Zhengzhou City, Henan Province, P.R.China

Has been assessed as conforming to meet the requirements of

GB/T19001-2016/ISO9001:2015

for the scope of activities

Production and sales of wear-resistant materials (white corundum sand, white corundum micro powder, alumina powder, flat plate alumina powder, silicon green carbide micro powder, brown corundum micro powder, zirconia sand)

Certificate No: IMSCG20Q4742R0S

Issue Date: 28 October 2021 Valid until: 3 November 2023

Attention:Subject to adherence to the agreed ongoing audit programme, successful endorsement of certification following each audit and compliance with CI Regulations

Certification Range of product service excludes the revalent administrative verification that are not acquired the valid national rule,certification permission,3C certification

Date of original issue 4 November 2020

Signed for and on behalf of

General Manager

Annual surveillance audit for the second time

Annual surveillance audit for the third time

Note: According to the certification requirements, the interval between the annual surveillance audit and the last spot audit cannot exceed twelve months.

INTERNATIONAL MANAGEMENT SYSTEM CERTIFICATION GROUP (CHINA) CO.,LTD.Tel: 021-36755218 Fax: 021-36755218

Add: Room 19A, No.1, Qiancong Road, Shanghai Pilot Free Trade Zone, P.R. China

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Certificate of Registration

This is to certify that

Zhengzhou Xinli Wear-resistant Materials Co., Ltd.

Unified social credit code: 91410105090936274B

Registered address:No.81, Wenhua Road, Jinshui District, Zhengzhou City, Henan Province, P.R.China

Audited address: Xinzhai Village, Liuzhai Town, Xinmi City, Zhengzhou City, Henan Province, P.R.China

Has been assessed as conforming to meet the requirements of

GB/T45001-2020/ISO45001:2018

for the scope of activities

Occupational health and safety management activities in the production and sales of wear-resistant materials (white corundum sand, white corundum micro powder, alumina powder, flat plate alumina powder, silicon green carbide micro powder, brown corundum micro powder, zirconia sand) by Zhengzhou Xinli Wear-resistant Materials Co., Ltd. located in Xinzhai Village, Liuzhai Town, Xinmi City, Zhengzhou City, Henan Province, P.R.China

Certificate No: IMSCG2156942R0S

Issue Date: 28 October 2021 Valid until: 27 October 2024

Attention:Subject to adherence to the agreed ongoing audit programme, successful endorsement of certification following each audit and compliance with CI Regulations

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Signed for and on behalf of

General Manager

Annual surveillance audit for the second time

Annual surveillance audit for the third time

Note: According to the certification requirements, the interval between the annual surveillance audit and the last spot audit cannot exceed twelve months.

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SGS

测试报告 No. SZXML2002462601 日期: 2020年10月16日 第1页,共6页

郑州新利耐磨材料有限公司
郑州市新郑市龙湖经济开发区祥安路向东工业园

以下测试之样品是由申请者所提供及确认：氧化锆砂 170#

SGS工作编号：	SZIN2010013684PC - SZ
材质：	Zr (Hf) O2
规格：	170#
制造商：	郑州新利耐磨材料有限公司
样品接收日期：	2020年10月12日
测试周期：	2020年10月12日 - 2020年10月16日
测试要求：	根据客户要求测试
测试方法：	请参见下一页
测试结果：	请参见下一页
结论：	基于所送样品进行的测试，镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸酯（如邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基已基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)）的测试结果符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

通标标准技术服务有限公司深圳分公司
授权签名

Andy Ni倪磊
批准签署人

扫码查看在线报告
SZXML2002462601

Member of the SGS Group (SGS SA)

SGS

测试报告 No. SZXML2002462201 日期: 2020年10月16日 第1页,共6页

郑州新利耐磨材料有限公司
郑州市新郑市龙湖经济开发区祥安路向东工业园

以下测试之样品是由申请者所提供及确认：白刚玉 1000#

SGS工作编号：	SZIN2010013681PC - SZ
材质：	Al2O3
规格：	1000#
制造商：	郑州新利耐磨材料有限公司
样品接收日期：	2020年10月12日
测试周期：	2020年10月12日 - 2020年10月16日
测试要求：	根据客户要求测试
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结论：	基于所送样品进行的测试，镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸酯（如邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基已基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)）的测试结果符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

通标标准技术服务有限公司深圳分公司
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Andy Ni倪磊
批准签署人

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02 White fused Alumina

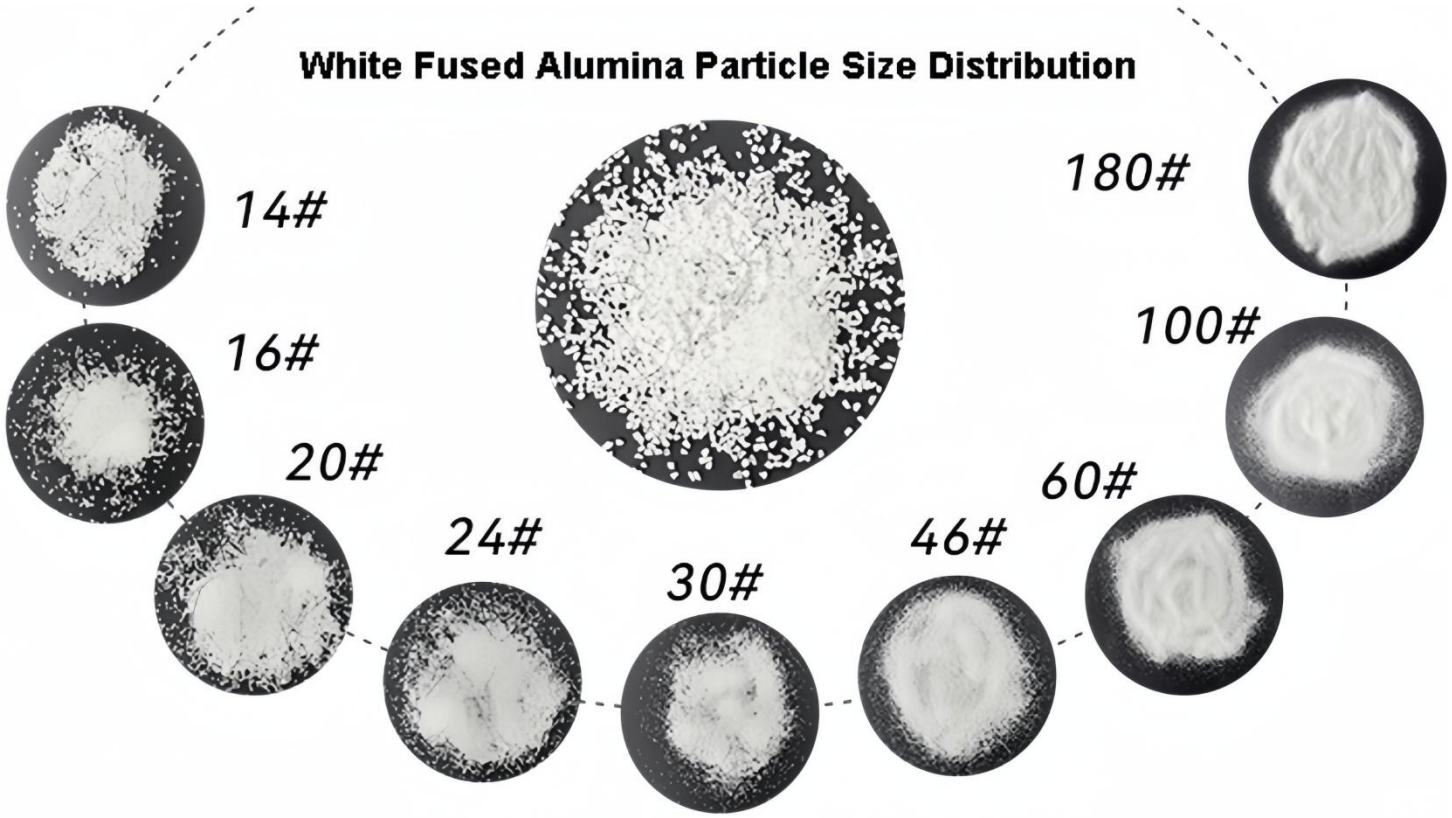
White fused alumina（12-240#）

White Fused Alumina (WA) is a finest micro grit particle that is ground and granulated by our advanced micro grit technology using white fused alumina abrasives as a raw material.

Its stable particle shape enables a sharp grit size distribution.

Code and Size range	Chemical Composition			
	Al_2O_3	SiO_2	Fe_2O_3	Na_2O
F12——F80	》99.5	《0.10	《0.05	《0.30
F90——F150				
F180——F220				

02White fused alumina



Application Areas


sandblasting


grinding


polishing


sandpaper


grinding wheel


ceramic tube


wear-resistant floor


electronic industry

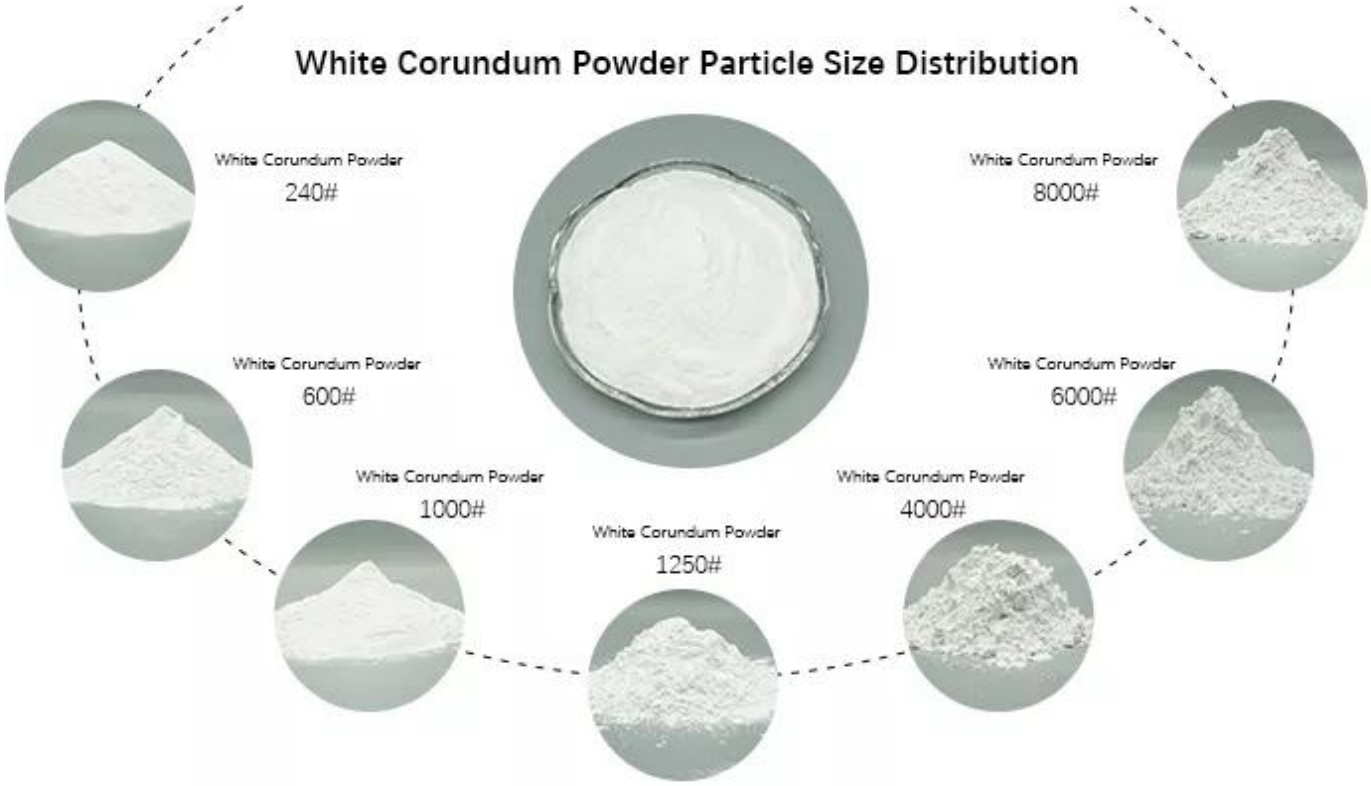
White fused alumina powder (240-20000#)

White Fused Alumina Powder are produced by the grinding & classification of selected Macro grain feed stock in an advanced milling and classifying facility. This ensures an iron free product of narrow particle size distribution and high whiteness.

Chemical Composition Standards:

Code and Size Range	Chemical Composition %			
	Al2O3	SiO2	Fe2O3	Na2O
F12——F80	≥99.50	≤0.10	≤0.05	≤0.30
F90——F150	≥99.50	≤0.10	≤0.05	≤0.30
F180——F220	≥99.50	≤0.10	≤0.05	≤0.30
#240—#3000	≥99.50	≤0.10	≤0.03	≤0.22
#4000—#12500	≥99.50	≤0.10	≤0.05	≤0.25

02White fused alumina



Brown Fused Alumina （Grit）

Brown Fused Alumina is produced by a reduction fusion of high quality bauxites in electric arcfurnaces.
It is both a hard and tough material with high strength, making it an excellent abrasive grain for applications.

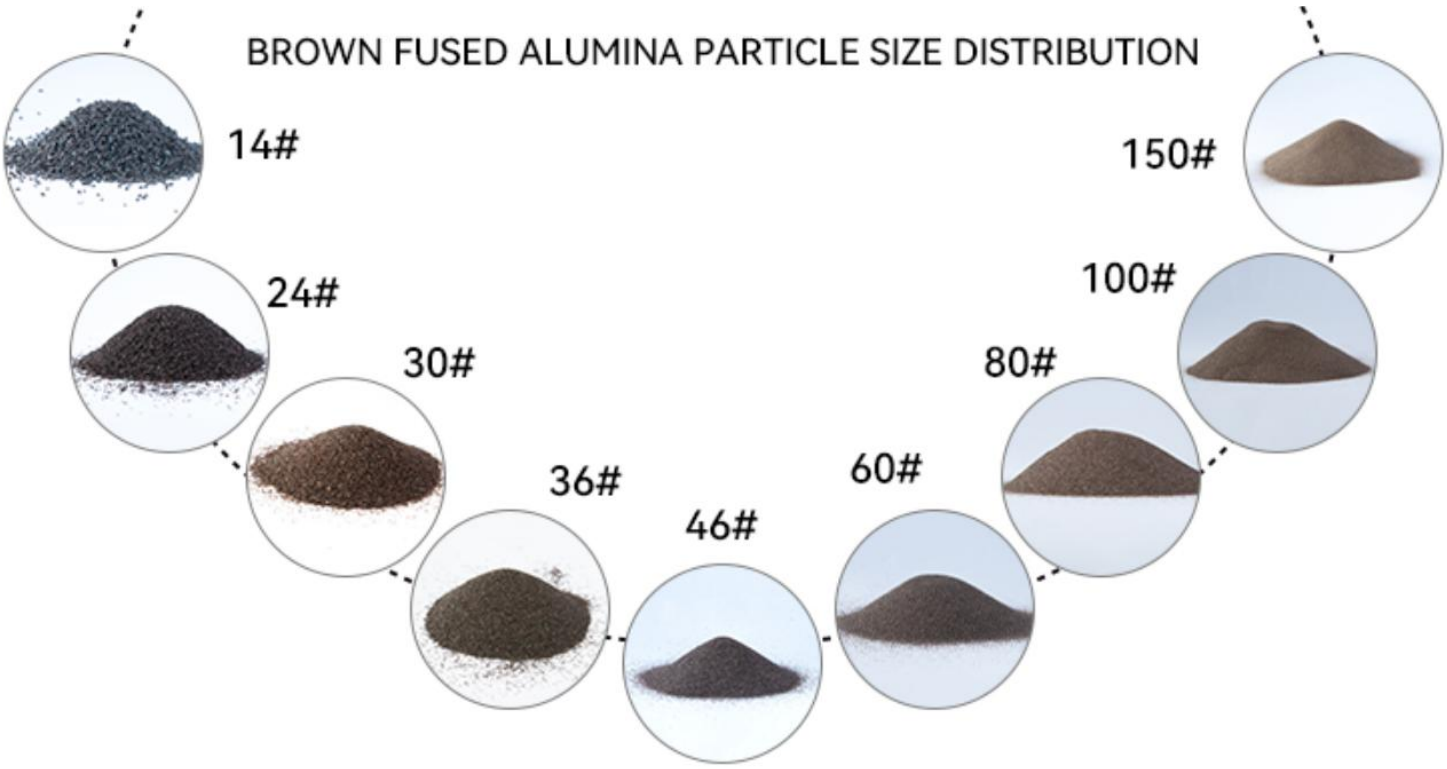
Grains Specifications And Composition

JIS	240#, 280#, 320#, 360#, 400#, 500#, 600#, 700#, 800#, 1000#, 1200#, 1500#, 2000#, 2500#, 3000#, 3500#, 4000#, 6000#, 8000#
European standard	F240, F280, F320, F360, F400, F500, F600, F800, F1000, F1200, F1500
National standard	W63, W50, W40, W28, W20, W14, W10, W7, W5, W3.5

Chemical Composition

Grains	Chemical composition(%)			
	Al2O3	SiO2	Fe2O3	TiO2
240#--1000#	≥94.5	≤1.5	≤0.15	≤2.5
1500#-4000#	≥94.0	≤1.5	≤0.20	≤2.5

03 Brown fused alumina



Application Areas


sandblasting


grinding


polishing


sandpaper


grinding wheel


ceramic tube


wear-resistant floor


electronic industry

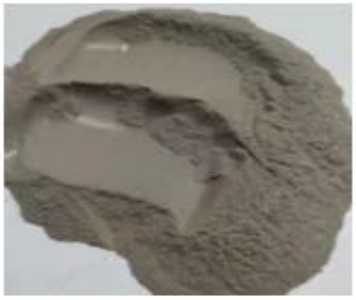
Brown Fused Alumina Powder

Brown Fused Alumina (BFA) powder is produced by a reduction fusion of high quality bauxites in electric arc furnaces.Its thermal properties make it an excellent raw material for refractory applications.

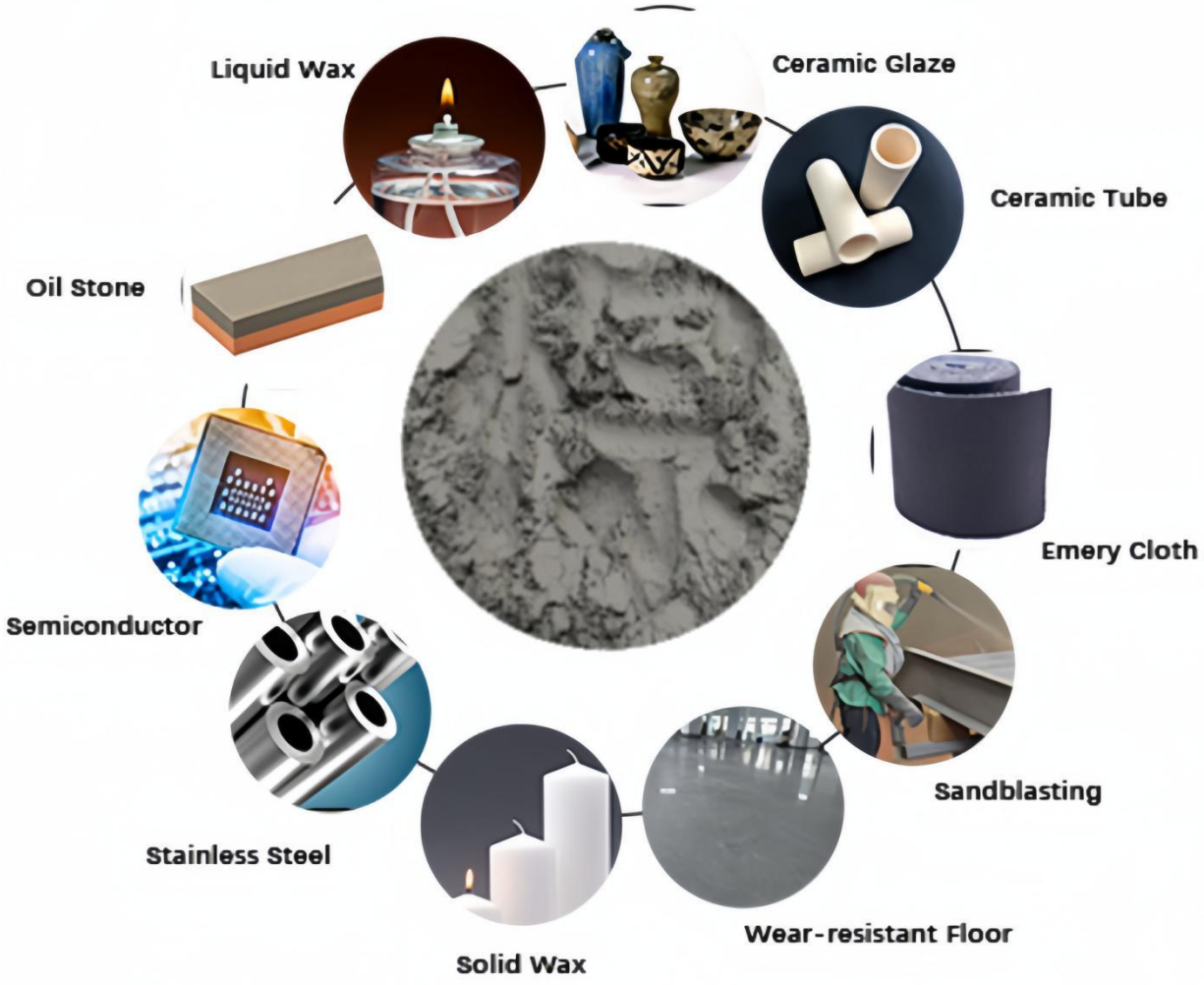
Chemical Composition

Grains	Chemical composition(%)			
	Al2O3	SiO2	Fe2O3	TiO2
240#--1000#	≥94.5	≤1.5	≤0.15	≤2.5
1500#-4000#	≥94.0	≤1.5	≤0.20	≤2.5
6000#-8000#	≥92.0	≤2.0	≤0.5	≤3.0

03 Brown fused alumina

		
240#	320#	400#
		
800#	2000#	3000#

Application Areas

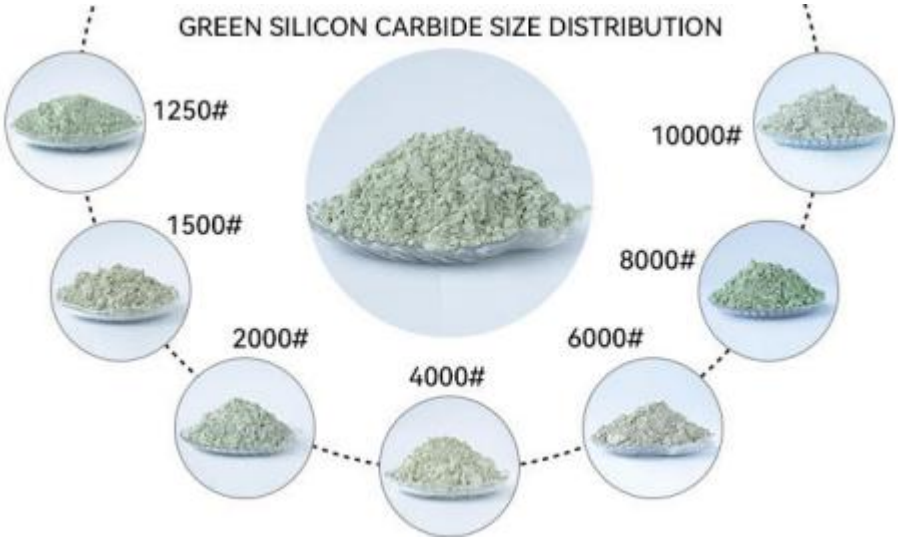


Green silicon carbide

Abrasive green silicon carbide is the perfect material that specifically manufactured to be used for general abrasive applications in bonded abrasive tools, lapping and polishing processes.

Grit Size	Chemical Composition% (by weight)		
	Sic	FC	Fe203
12# - 90#	≥99.00	≤0.20	≤0.20
100#-180#	≥98.50	≤0.25	≤0.50
220#-240#	≥97.50	≤0.25	≤0.70
W63-W20	≥97.00	≤0.30	≤0.70
W14-W10	≥95.00	≤0.30	≤0.70
W7-W5	≥94.00	≤0.50	≤0.70

04 Silicon carbide

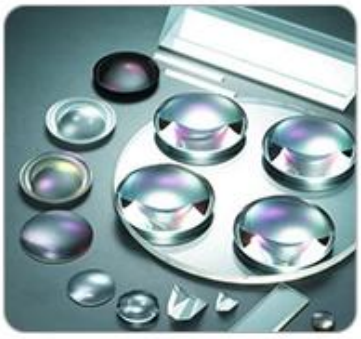


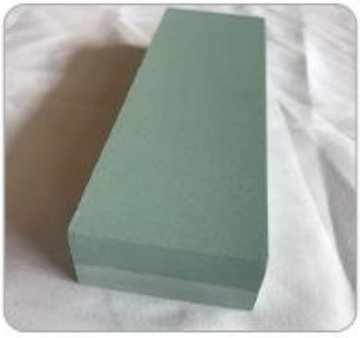
APPLICATION AREAS


Sandblasting


Bonded Abrasives


Glass Sandblasting

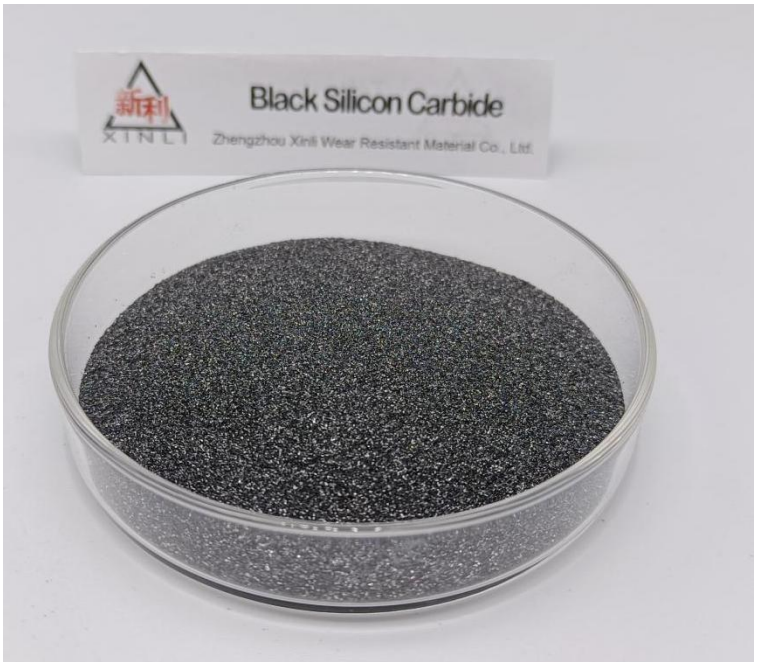

Optical Glass


Superfinishing Stone


Semiconductor

Black silicon carbide

Black silicon carbide is produced at high temperature in an electric resistance type furnace with quarts sand and petroleum coke as its main raw materials.Its hardness is between fused alumina and synthetic diamond.



	SiC (≥)	F.C. (≤)	Fe2O3(≤)
F4-F90 P12-P100	98.50	0.2	0.4
F100-F150 P120-P150	98.10	0.25	0.5
F180-F220 P180-P220	97.20	0.3	0.55
F230-F280 P240-P360	97.20	0.3	0.55
F320-F500 P400-P1000	97.00	0.35	0.6
F600-F800 P1200-P1500	96.50	0.4	0.6

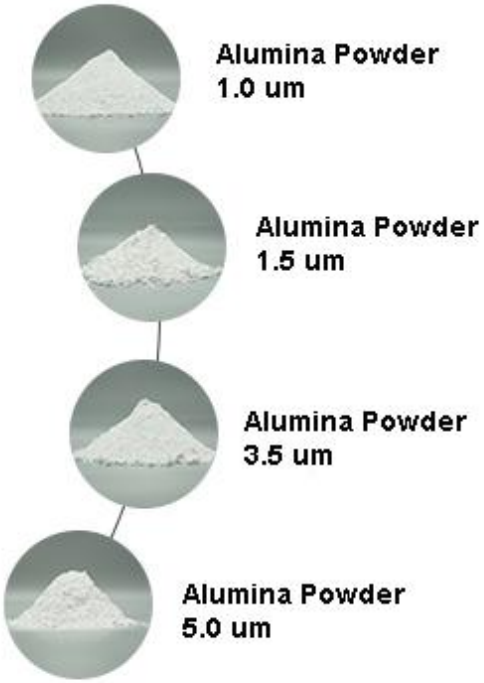
Alumina oxide powder

Alumina powder is the ideal for aluminium production and others that require hardness and resistance to abrasion or other forms of chemical wear. Alumina powder is also ideal for products that require corrosion and wear resistance, and for products that require high thermal conductivity, such electrically and thermally insulating applications.

Specification	Al2O3	Na2O	D50(um)	The original crystal particles	Bulk Density
0.7 um	≥99.6	≤0.02	0.7-1.0	0.3	2-6
1.5 um	≥99.6	≤0.02	1.0-1.8	0.3	4-7
2.0 um	≥99.6	≤0.02	2.0-3.0	0.5	<20

05 Aluminum oxide

Alumina Powder Particle Size Distribution



Application Areas

ceramic membrane

ceramic substrate

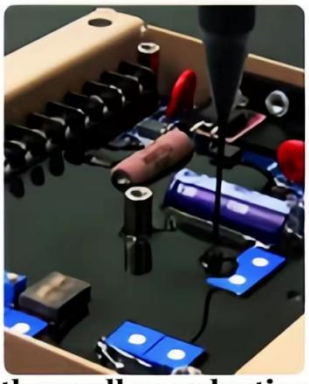
electronic ceramics

led circuit board

optical instrument

paint and coating

polishing



thermally conductive potting

Glass beads

The glass beads are used for road marking paints and thermoplastic road marking materials to provide excellent night retro-reflectivity. When the headlight shines on the road line ,the light is reflected back, and then the driver can drive the car safely in night .The rate of glass beads in paint is 15%-25%.The glass beads can be used as intermix and drop-on .we can produce the beads as per the standard of JT/T446-2001 and BS 6088-1981 and other national standard.

Chemical Composition

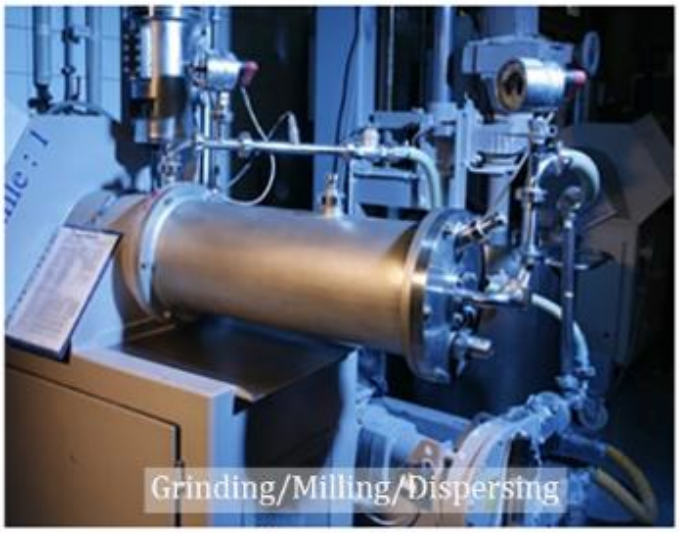
SiO2	≥65.0%
Na2O	≤14.0%
CaO	≤8.0%
MgO	≤2.5%
Al2O3	0.5-2.0%
K2O	≤1.50%
Fe2O3	≥0.15%

06 Glass beads

Specifications

Designation	US Sieve	Nominal Diameter		Lowest roundness%
		Max(um)	Min(um)	
1	12-14	1700	1400	
2	14-20	1400	850	
3	20-30	850	600	65
4	30-40	600	425	70
5	40-50	425	300	70
6	50-70	300	212	80
7	60-80	250	180	80
8	70-100	212	150	80
9	80-120	180	125	80
10	100-170	150	90	90
11	120-200	125	75	90
12	140-230	106	62	90
13	170-325	90	45	95

Application



Zirconium Oxide beads

The purity of Zirconium Oxide beads is 95%, so the specialty is called "95 Zirconium Oxide beads" or "pure zirconia". Zirconium Oxide beads are made by hydrothermal method 3, through nano grinding, spray milling, coupled with mature molding process and sintering technology.

Product parameters

Conventional size (mm)

Ø0.08~0.012	Ø0.15~0.2
Ø0.2~0.3	Ø0.3~0.4
Ø0.4~0.6	Ø0.8~1.0
Ø1.2~1.4	Ø1.4~1.6
Ø1.8~2.0	Ø2.2~2.5
Ø3±0.2	Ø5±0.2
Ø10±0.2	Ø20±0.2

Specification

Chemical Composition	Content
Zr02	95%± 0.2
Y203	5%± 0.2
Physical property	Parameter
proportion	>6.0
crushing strength	>1.5KN(ø2mm)
Bulk specific gravity	23.7
Vickers hardness	>1250
Sphericity	0.98(Xmin/Xmax)
Self wear	<0.6(ppm/h)
Impact resistance loss	<0.05%/h

Customizable according to requirements

Application

It can be applied to carp batteries, ceramic ink, thermal transfer ink, non-metallic minerals, pesticides, electronic ceramics, magnetic materials, white powder, medical supplies, pigments, dyes, inks, special chemical industries, etc., especially for the grinding and dispersion of high viscosity materials.

Zirconium Oxide Powder

Nano Zirconium has the characteristics of high hardness, high-temperature resistance chemical corrosion resistance, wear-resistance, small thermal conductivity, strong thermal shock resistance, good chemical stability, outstanding composite material, etc. The properties of the material can be improved by combining nanometer Zirconium with alumina and silicon oxide. Nano Zirconium is not only used in structural ceramics and function alceramics. Nano Zirconium doped with different elements conductive properties, used in solid battery electrode manufacturing.



Properties Type	Product types				
Chemical Composition	Normal ZrO2	High purity ZrO2	3Y ZrO2	5Y ZrO2	8Y ZrO2
ZrO2+HfO2 %	≥99.5	≥99.9	≥94.0	≥90.6	≥86.0
Y2O3 %	-----	------	5.25±0.25	8.8±0.25	13.5±0.25
Al2O3 %	<0.01	<0.005	0.25±0.02	<0.01	<0.01
Fe2O3 %	<0.01	<0.003	<0.005	<0.005	<0.01
SiO2 %	<0.03	<0.005	<0.02	<0.02	<0.02
TiO2 %	<0.01	<0.003	<0.005	<0.005	<0.005
Water Composition(wt%)	<0.5	<0.5	<1.0	<1.0	<1.0

07 Zirconium Oxide

Properties Type	Product types				
Chemical Composition	12Y ZrO2	Yello Y stabilized ZrO2	Black Y stabilized ZrO2	Nano ZrO2	Thermal spray ZrO2
ZrO2+HfO2 %	≥79.5	≥94.0	≥94.0	≥94.2	≥90.6
Y2O3 %	20±0.25	5.25±0.25	5.25±0.25	5.25±0.25	8.8±0.25
Al2O3 %	<0.01	0.25±0.02	0.25±0.02	<0.01	<0.01
Fe2O3 %	<0.005	<0.005	<0.005	<0.005	<0.005
SiO2 %	<0.02	<0.02	<0.02	<0.02	<0.02
TiO2 %	<0.005	<0.005	<0.005	<0.005	<0.005
Water Composition(wt%)	<1.0	<1.0	<1.0	<1.0	<1.0
L.O.I(wt%)	<3.0	<3.0	<3.0	<3.0	<3.0
D50(μm)	<1.0-5.0	<1.0	<1.0-1.5	<1.0-1.5	<120
Surface area(m2/g)	8-15	6-12	6-15	8-15	0-30

Properties Type	Product types			
Chemical Composition	Cerium stabilized ZrO2	Magnesium stabilized ZrO2	Calcium stabilized ZrO2	Zircon aluminum composite powder
ZrO2+HfO2 %	87.0±1.0	94.8±1.0	84.5±0.5	≥14.2±0.5
CaO	-----	------	10.0±0.5	-----
MgO	-----	5.0±1.0	------	-----
CeO2	13.0±1.0	------	------	------
Y2O3 %	-----	------	------	0.8±0.1
Al2O3 %	<0.01	<0.01	<0.01	85.0±1.0
Fe2O3 %	<0.002	<0.002	<0.002	<0.005
SiO2 %	<0.015	<0.015	<0.015	<0.02
TiO2 %	<0.005	<0.005	<0.005	<0.005
Water Composition(wt%)	<1.0	<1.0	<1.0	<1.5
L.O.I(wt%)	<3.0	<3.0	<3.0	<3.0
D50(μm)	<1.0	<1.0	<1.0	<1.5
Surface area(m2/g)	3-30	6-10	6-10	5-15

Application

We provide high-purity Zirconium powder, which can be used in many occasions, such as cathode material of lithium battery, TZP structure, teeth, the backplate of mobile phone, Zirconium gem, etc.

Garnet Abrasive

Garnet Abrasive, also known as diamond sand, has strong hardness. Different types of garnet have different colors, and their specific gravity and hardness also vary slightly. Common garnet colors include: maroon, red, orange yellow, yellow green, green, and rose red.

Garnet can be used as a filter medium for water, as well as for road surfaces, exterior wall coatings, rubber fillers (such as filling for automotive tire conveyor belts), and other industries such as polishing, sandblasting, water knife cutting, glass sandblasting, metal surface treatment, optics, electronics, machinery, instruments, etc.

Mineral Content							
Mineral Name	Almandine Garnet	Ilmenite	Omphacite	Rutile	Quartz	Hornblende	Free Silica
content（%）	85-93%	2.4	3.8	0.8	<0.1	<0.5	<1%

Chemical Composition									
Content	Fe2O3	SiO2	TiO2	Al2O3	Fe2O	CaO	MgO	MnO	Sol.Cl
Content（%）	17	39	0.05	21	8	9.5	5	0.4	<25ppm

Physical Characteristics								
Parameter	Density（g/cm3）	Bulk Gravity	Mohs Hardness	Color	Grain shape	Conductivity	Toxicant	Acid solubility (HCL)
Data	3.8-4.1	2.3-2.4	7.5-8.0	Dark red	Sub angular	<25MS/m	0	<1.0%

Commonly used granularity

Common particle size of garnet filter material

0.5－1mm/0.6－1.2mm/1－2mm/2－4mm/3－5mm/4-6mm/5－8mm/8－10mm

Common particle size of garnet abrasive

10#、12#、14、16#、20#、24#、30#、36#、46#、60#、
80#、100#、120#、150#、180#、200#、220#、240#、280#、325#


Application
Sandblasting
Polishing
Grinding
Resin abrasive tool
Coated abrasive tool
Functional additive
Filter medium
Water jet cutting

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