



**Zhengzhou Xinli Wear
Resistant Material Co.,Ltd**

Catalogue

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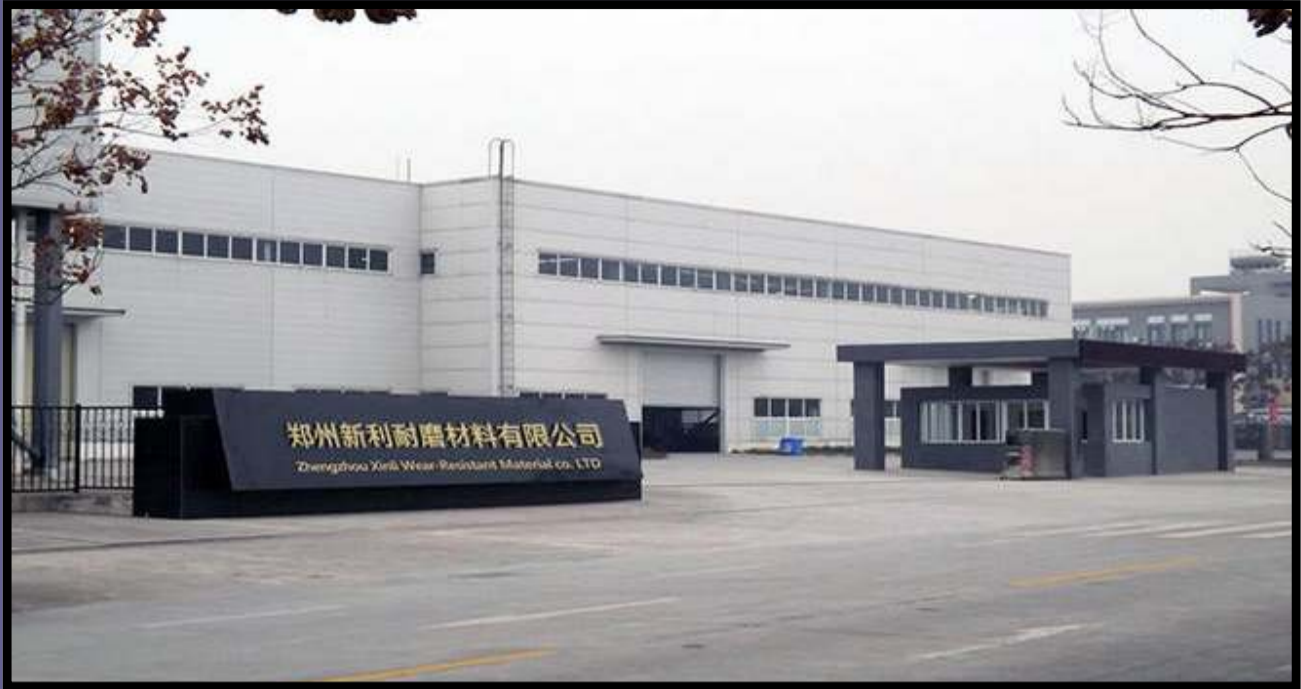
Company introduction

01



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 micropowder.

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



INTERNATIONAL MANAGEMENT SYSTEM CERTIFICATION GROUP



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, Luozhai 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

Certificate No: **IMSCG20Q4742R05**
 Issue Date: **4 November 2020** 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 relevant administrative verification that are not acquired the valid national rule, certification permission, 3C certification

Signed for and on behalf of _____
lizhenchu
 General Manager

Annual surveillance audit for the first time

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: 021-38755218 Fax: 021-38755218
 Add: Room 13A, No.1, Qiancang Road, (Shanghai) Pilot Free Trade Zone, P.R. China
 The certificate information is validity on: Our company Web: www.int-certgroup.com CHCA official web: www.chca.gov.cn



Aluminum oxide

02

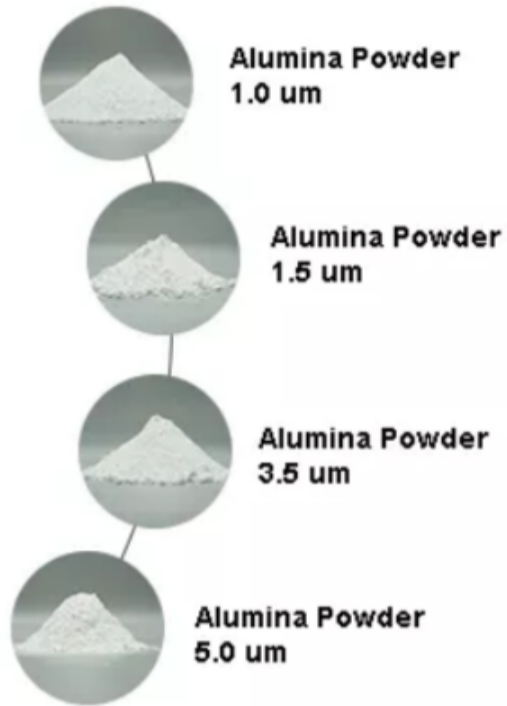


Alumina powder is the ideal for aluminium production and others that require hardness and resistance to abrasion or other forms of chemical wear. Alumina powder is also ideal for products that require corrosion and wear resistance, and for products that require high thermal conductivity, such electrically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

Specification	Al ₂ O ₃	Na ₂ O	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

Specification:0.5um-24um

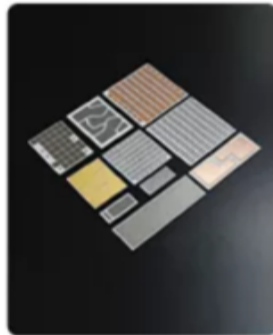
Alumina Powder Particle Size Distribution



Application Areas



ceramic membrane



ceramic substrate



electronic ceramics



led circuit board



optical instrument
polishing



paint and coating



polishing



thermally conductive
potting

Classification: Non Spherical Alumina
Platelet Calcined Alumina
Spherical Alumina

White fused alumina

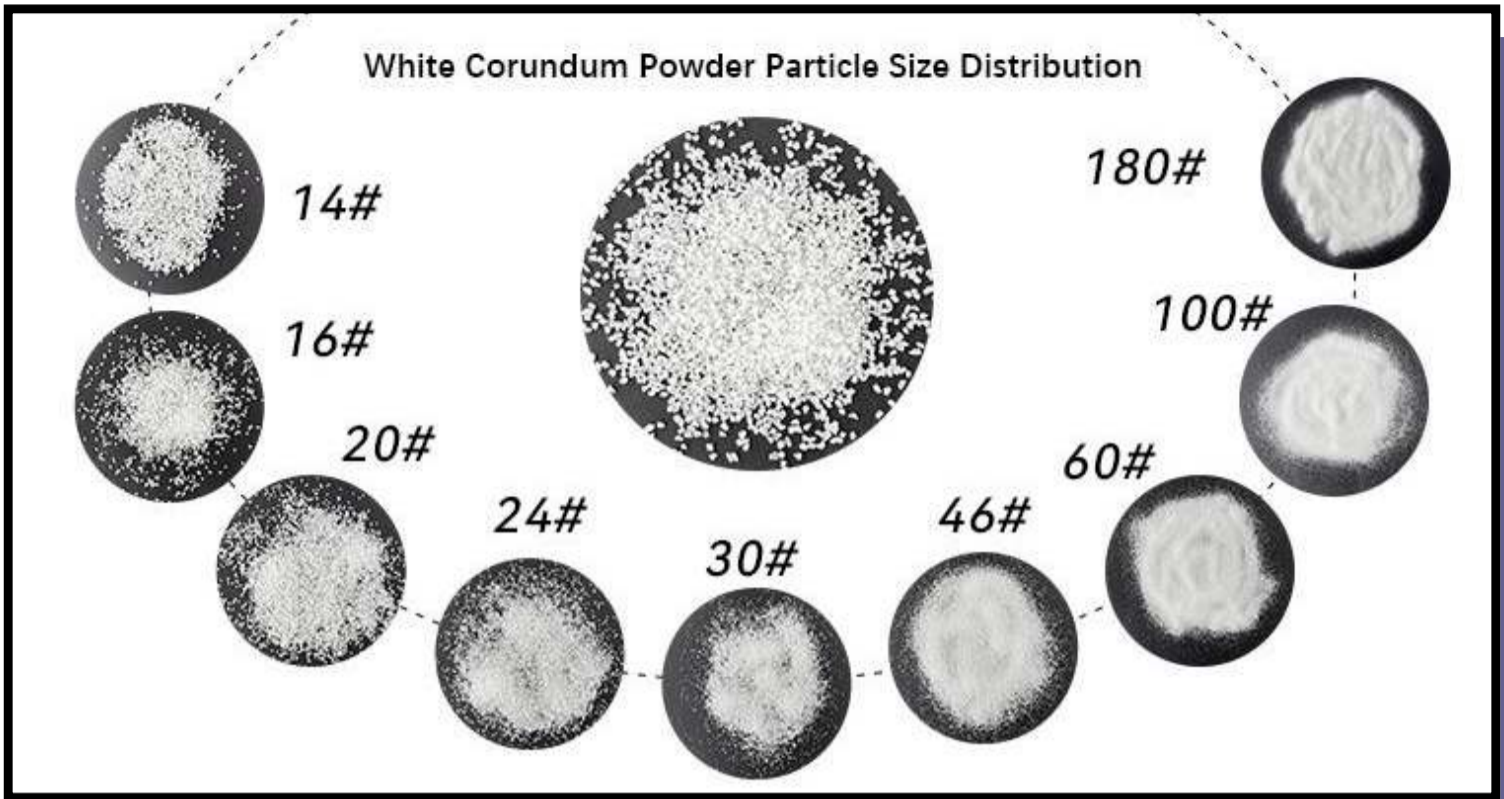
03

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.

STANDARD FOR CHEMICAL COMPOSITION OF WHITE CORUNDUM ABRASIVE				
Code and Size range	Chemical Composition			
	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	Na ₂ O
F12—F80	» 99.5	《0.10	《0.05	《0.30
F90—F150				
F180—F220				
• PERFORMANCE – Performance: White, more than 99% α-type crystal, high purity, high hardness and high toughness. Strong cutting force, good chemical stability, and good insulation.				

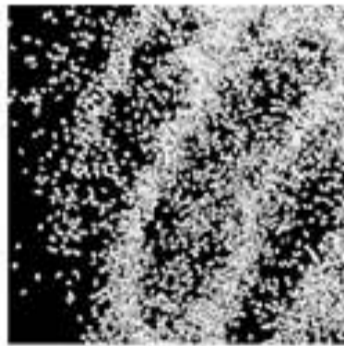


WHY CHOOSE OUR PRODUCTS

SOURCE FACTORY/A LARGE SUPPLY/VARIOUS SIZES



Selection material



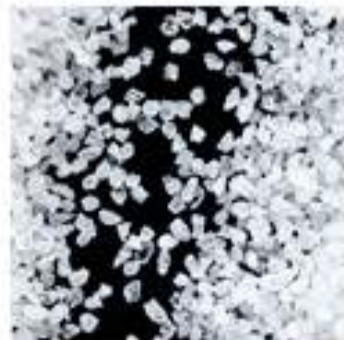
High grinding force



Even shape



Even particle



Strong toughness



Various sizes

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.

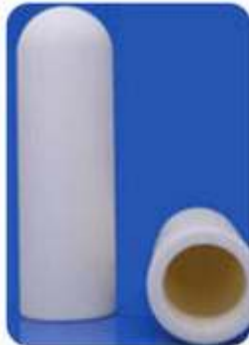
Chemical Position Standards:

Code and Size Range	Chemical Composition%			
	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	Na ₂ O
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	≤0.05	≤0.30
#4000-#12500	≥99.50	≤0.10	≤0.05	≤0.30

White Corundum Powder Particle Size Distribution



Application Areas



Brown fused alumina

04

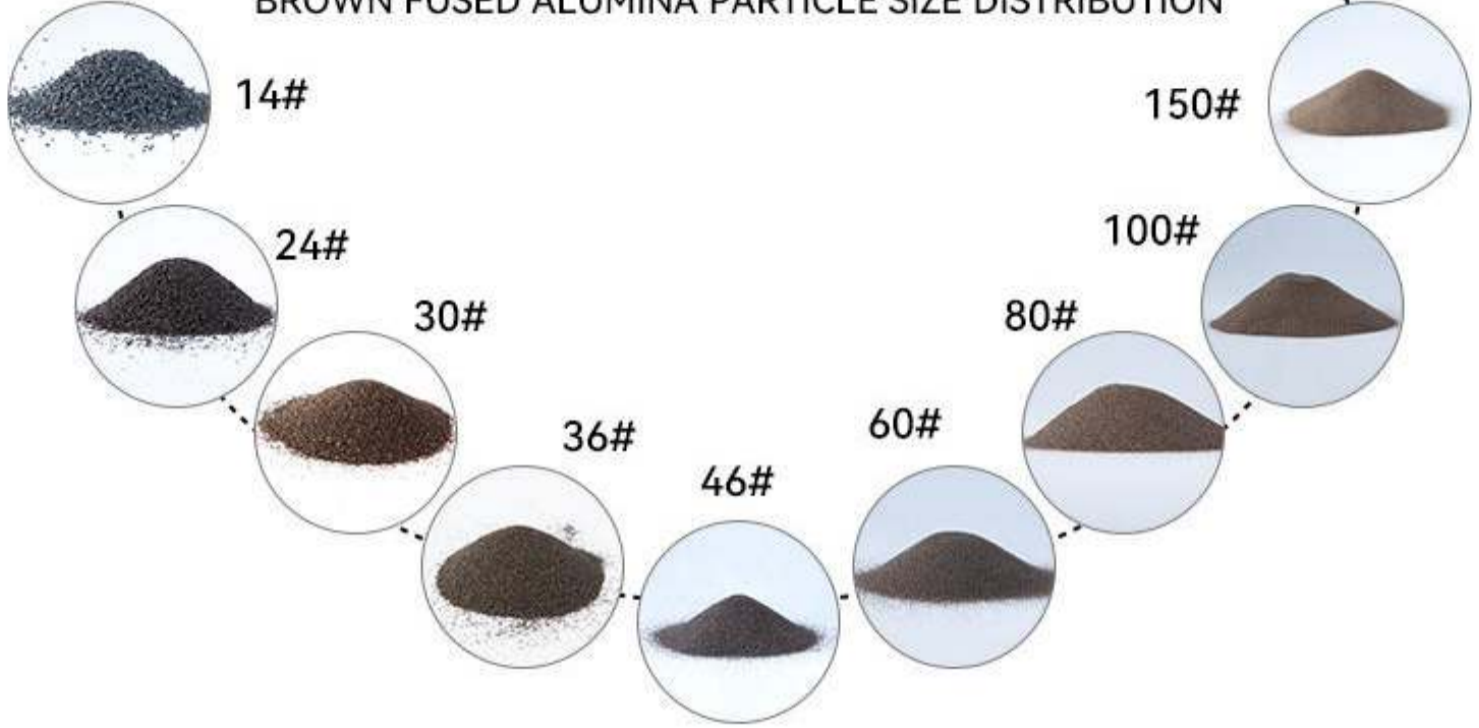


Brown Fused Alumina (BFA) is produced by a reduction fusion of high quality bauxites in electric arc furnaces. It is both a hard and tough material with high strength, making it an excellent abrasive grain for applications.

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

BROWN FUSED ALUMINA PARTICLE SIZE DISTRIBUTION



PRODUCTION PROCESS



1.Raw material



2.Fixed furnace smelting



3.Jaw crusher breaking



4.Ball mill grinding



5.Acid Washing



6.Sorting



7.Inspection and drying



8.Ultrasonic sifting



9.Packing



10.Shipping

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.

Grains	Chemical composition(%)			
	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂
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



Package



Package can be customized

Silicon Carbide

05



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	Fe ₂ O ₃
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

Black Silicon Carbide



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

	SiC (\geq)	F.C. (\leq)	Fe ₂ O ₃ (\leq)
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

Green Silicon Carbide Powder

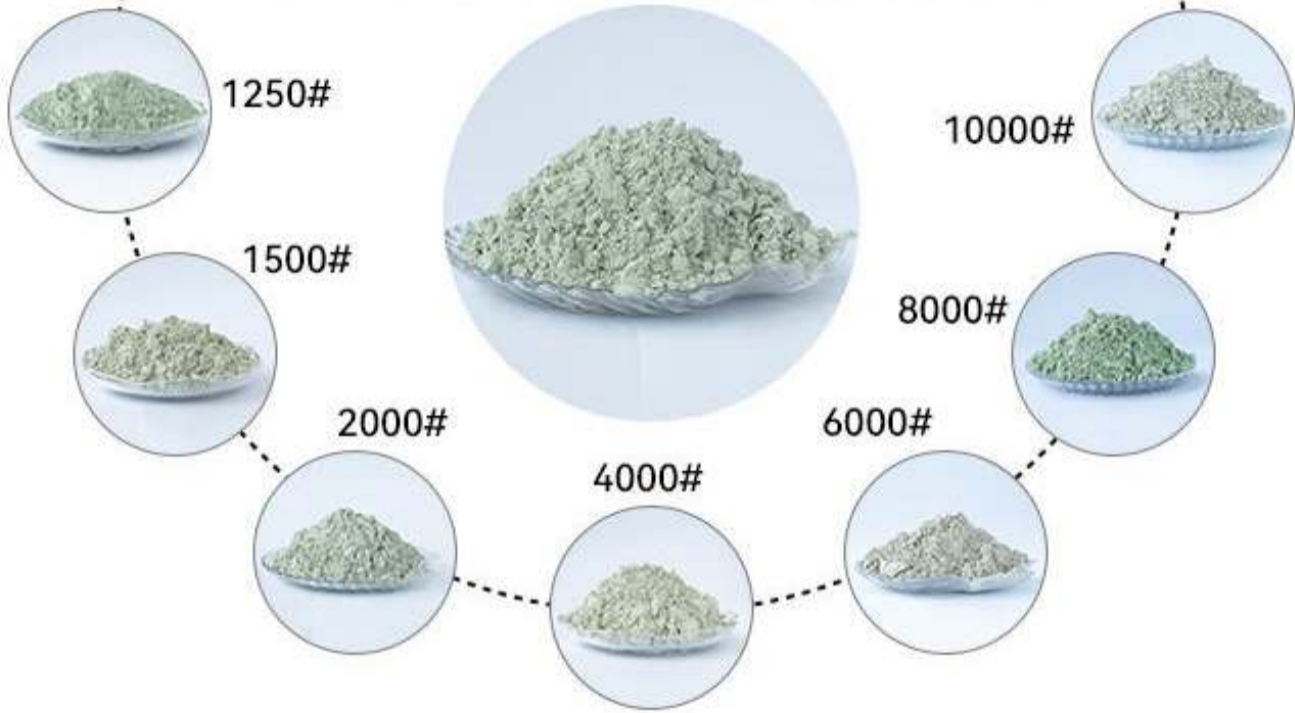


Abrasive green silicon carbide powders are the perfect material that specifically manufactured to be used for general abrasive applications in bonded abrasive tools, lapping and polishing processes.

Chemical composition

Grains	Chemical composition (%)		
	Sic	F.C.	Fe2O3
16#--220#	≥99.0	≤0.30	≤0.20
240#--2000#	≥98.5	≤0.50	≤0.30
2500#--4000#	≥98.5	≤0.80	≤0.50
6000#-12500#	≥98.1	≤0.60	≤0.60

GREEN SILICON CARBIDE SIZE DISTRIBUTION



APPLICATION AREAS



Sandblasting



Bonded Abrasives



Glass Sandblasting



Optical Glass



Superfinishing Stone



Semiconductor

Corn Cob

06



Corn cob grit is a free-flowing and environmentally friendly abrasive made from hard cob. When used as a tumbling media, it absorbs oils and dirt while drying parts – all without affecting their surfaces. A safe blasting media, corn cob grit is also used for delicate parts.

Grit size	1mm-2mm, 2mm-4mm, 1mm-3mm, 3mm-5mm
Grit size	#3,#4,#5,#6,#8,#10,#12,#14,#16,#20,#24,#36,#46,#54,#60 #80, #100,#120
Powder	#150,#180,#200

Specification



#6



#8



#16

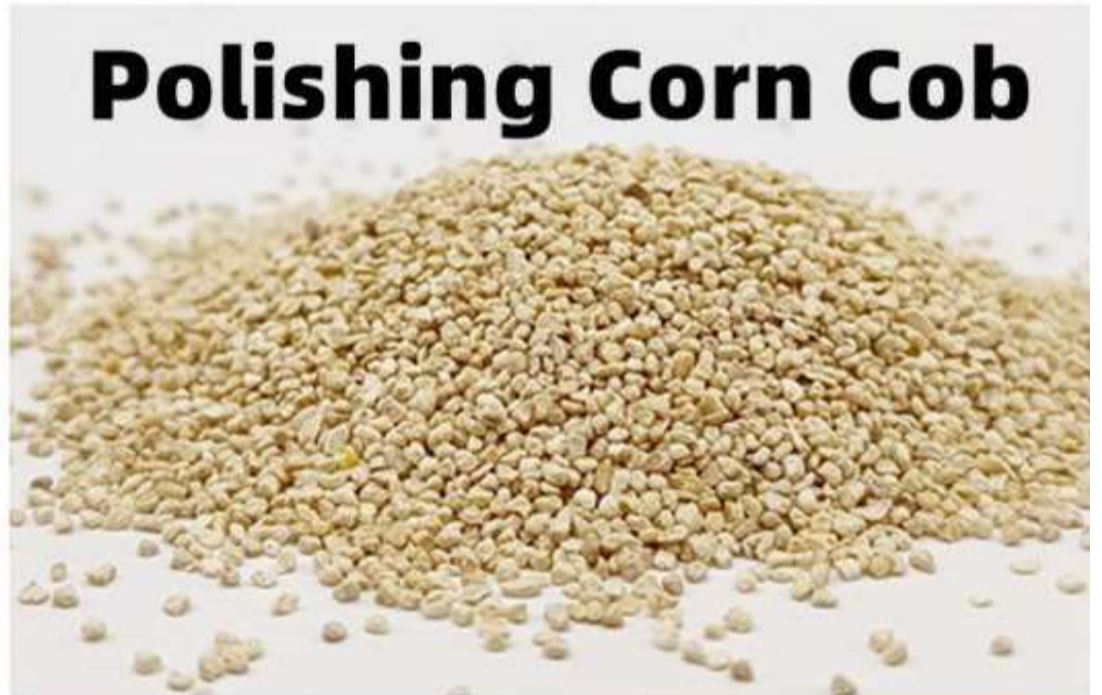


#10



#14

Application



Red Garnet

07



Garnet is one of the hardest minerals in the world, ranking between 7.5 and 8.5 on the Mohs scale of mineral hardness (where diamonds, which serve as the benchmark for hardness, rank as a 10). This means it is an excellent abrasive, ideal for many industrial applications including waterjet cutting and abrasive blasting.

Chemical Composition Standards:

Code and Size Range	Chemical Composition %			
	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	FeO
F12—F80	≥20	≤36	≤9	≤20
F90—F150	≥20	≤36	≤9	≤20
F180—F220	≥20	≤36	≤9	≤20

Specification



Application



Walnut Shell

08



Walnut shell is a kind of granular processed by degreasing, crushing, screening, etc., the surface of the microporous, good adsorption effect of the filter material, but also natural tumbling material and polishing abrasive, using it as abrasive will not damage the surface of the workpiece, good polishing effect, etc.

Porosity	Density	Adsorption efficiency	Compressive resistance	Wear rate	Hard
50%	1.5 (g/cm ³)	95-98 (%)	23.4 (kgf)	< 1.5%	4

Specification



Application



Strong Flocculation



Purify Water Quality



No Other Substances



Strong Applicability



Strong Resistance



Sewage Disposal



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