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郑州曦荷森新材料有限公司  
ZHENGZHOU XIHESEN NEW MATERIALS CO. LTD



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# Since 1998, your reliable partner!

Zhengzhou Xihsen New Materials Co. Ltd, since 1998.

As a professional abrasive supplier and exporter in China, we are able to supply our products with competitive prices. We have two plants and 12 producing lines to make grit and micropowder at FEPA standard, JIS standard, China GB standard in large quantities. For your special requirement, the irregular grit and powder could be produced according to your requirement. We have lab and technicians to help us keep the products at high quality.

Your trusted partner for 25 years of excellence in industrial abrasives! We specialize in crafting high-quality abrasive powders and micro powders, including aluminum oxide, silicon carbide, and garnet, tailored for a wide array of applications.

From abrasive blasting and polishing to grinding and refractory media, our products deliver unmatched performance and reliability.

With a commitment to quality, quick delivery, and exceptional service, we're your go-to source for all things abrasive. Experience the difference – where innovation meets industry-leading expertise!

We respond to inquiries within 24 hours and solve problems promptly. Let's build a successful partnership!

郑州曦荷森新材料有限公司，源自 1998 年，专业提供高品质研磨材料，磨料介质产品，有多种型号的白刚玉，棕刚玉，绿色及黑色碳化硅系列微粉及粒度砂，石榴石，黑刚玉，切割砂轮及异形砂轮产品。产品可执行标准有欧标（FEPA），日标（JIS），国标（GB）系列，可满足不同国家的应用需求，特殊型号产品可根据客户需求另行加工。

公司有多条生产线，标准型号的磨料级粒度砂及微粉产品月供货能力可达 1800 吨以上，耐材级特殊型号产品月供货能力可达 4000 吨以上。

产品品质稳定可靠，广泛应用于磨料磨具，电子，航天，精密机械加工及铸造，化工及耐材，机械设备等诸多行业。

经过多年的发展，公司客户已遍布世界各洲，韩国，日本，马来西亚，澳大利亚，德国，捷克，法国，波兰，美国，加拿大等多个国家和地区的诸多行业。

关于产品品质，我们在不懈努力，关于服务，我们在不断追求。努力为客户提供满意的品质和服务。

公司欢迎新老客户，愿与君携手，共创未来！

## Product List

White Aluminum Oxide 白刚玉

Brown Aluminum Oxide 棕刚玉

Green Silicon Carbide 绿碳化硅

Black Silicon Carbide 黑碳化硅

Abrasives Garnet 石榴石

Normal Standard

GB( China standard) 国标

FEPA(ISO) 欧标

JIS(Japan standard) 日标

ANSI(US standard) 美国标准

Special size powder refractory media 特殊型号

0-0.5MM, 0-1MM, 1-3MM, -80MESH, -180MESH,  
-325MESH etc.

## Comparison table of size arrange

## 粒度对照表

| Grit<br>型号 | Size Arrange(μ m)粒度范围: 单位 微米      |                                   |                |                     |
|------------|-----------------------------------|-----------------------------------|----------------|---------------------|
|            | China GB<br>(GB/T<br>2481.1-1998) | ISO8486.1:1996<br>& FEPA42GB-1984 | JIS R6001-1998 | ANSI<br>B74.12-1992 |
| F4         | 5600~4750                         |                                   |                | 5600~4750           |
| F5         | 4750~4000                         |                                   |                | 4750~4000           |
| F6         | 4000~3350                         |                                   |                | 4000~3350           |
| F7         | 3350~2800                         |                                   |                | 3350~2800           |
| F8         | 2800~2360                         |                                   | 2800~2360      | 2800~2360           |
| F10        | 2360~2000                         |                                   | 2360~2000      | 2360~2000           |
| F12        | 2000~1700                         |                                   | 2000~1700      | 2000~1700           |
| F14        | 1700~1400                         |                                   | 1700~1400      | 1700~1400           |
| F16        | 1400~1180                         |                                   | 1400~1180      | 1400~1180           |
| F20        | 1180~1000                         |                                   | 1180~1000      | 1180~1000           |
| F22        | 1000~850                          |                                   | 1000~850       | -                   |
| F24        | 850~710                           |                                   | 850~710        | 850~710             |
| F30        | 710~600                           |                                   | 710~600        | 710~600             |
| F36        | 600~500                           |                                   | 600~500        | 600~500             |
| F40        | 500~425                           |                                   | 500~425        | -                   |
| F46        | 425~355                           |                                   | 425~355        | 425~355             |
| F54        | 355~300                           |                                   | 355~300        | 355~300             |
| F60        | 300~250                           |                                   | 300~250        | 300~250             |
| F70        | 250~212                           |                                   | 250~212        | 250~212             |
| F80        | 212~180                           |                                   | 212~180        | 212~180             |
| F90        | 180~150                           |                                   | 180~150        | 180~150             |
| F100       | 150~125                           |                                   | 150~125        | 150~125             |
| F120       | 125~106                           |                                   | 125~106        | 125~106             |
| F150       | 106~75                            |                                   | 106~75         | 106~75              |
| F180       | 90~63                             |                                   | 90~63          | 90~63               |
| F220       | 75~53                             |                                   | 75~53          | 75~53               |
| F240       | -                                 |                                   | -              | 75~53               |

## White Aluminum Oxide(WA)

It has high purity of  $Al_2O_3$  99%-99.9%.

It's white color and has little higher hardness and toughness.

The abrasive tools made of it are suitable for fine grinding of high carbon steel, high-speed steel and stainless steel.

Abrasive powder of finer grit size, can also be used for precision casting and high-grade refractory, for sandblasting, and abrasive etc.

白剛玉

白剛玉又稱電熔氧化鋁，呈白色。用於磨料磨具，噴砂，拋光，及耐火材料。由於硬度大，適用於加工鋼材，不銹鋼，高速鋼，碳鋼等。

| Symbol | Range of the grain | Chemical composition (%) |         | True density | Shape of grain |
|--------|--------------------|--------------------------|---------|--------------|----------------|
|        |                    | $Al_2O_3$                | $Na_2O$ |              |                |
| WA     | F12-80             | ≥99.70                   | ≤0.2    | ≥3.90        | Equaled Volume |
|        | F90-150            | ≥99.70                   | ≤0.2    |              |                |
|        | F180-220           | ≥99.50                   | ≤0.2    |              |                |
|        | F230-400           | ≥99.50                   | ≤0.25   |              |                |
|        | F500-1200          | ≥99.0                    | ≤0.25   |              |                |

## Brown Fused Aluminum Oxide Powder

Brown Fused Aluminum Oxide powders are the perfect material specifically manufactured to be used for general abrasive applications in bonded abrasive tools, and lapping and polishing processes, it is widely used for grinding ferrous materials, finishing tough and hard materials, filling up ceramic parts when the processing cost is important. It is offered in macro and micro powder form, in both P and FEPA grades.

棕刚玉是由铝矾土经电弧炉冶炼而成，主要化学成份为氧化铝，呈棕褐色，产品硬度高、韧性大，用其制成的磨具适用于磨削碳素钢、一般合金钢、可锻铸铁、硬青铜等，并广泛应用于刚玉铁沟浇铸料，捣打料等耐火制品。

| Chemical Composition |                                                 |                                                             |                                    |                                                   |
|----------------------|-------------------------------------------------|-------------------------------------------------------------|------------------------------------|---------------------------------------------------|
| Grit Size            | Al <sub>2</sub> O <sub>3</sub><br>mass % - min. | Fe <sub>2</sub> O <sub>3</sub> (Iron Oxide)<br>mass % - max | CaO (Calcium Oxide)<br>mass % -max | Titanium Oxide (TiO <sub>2</sub> )<br>mass %- max |
| F12-F20              | 95.0                                            | 0.2                                                         | 0.3                                | 1.7                                               |
| F24-F90              | 95.0                                            | 0.2                                                         | 0.3                                |                                                   |
| F100-F120            | 95.0                                            | 0.2                                                         | 0.4                                |                                                   |
| F150-F180            | 95.0                                            | 0.3                                                         | 0.4                                |                                                   |
| F230-F280            | 95.0                                            | 0.4                                                         | 0.5                                |                                                   |
| F320-F600            | 94.0                                            | 0.4                                                         | 0.5                                |                                                   |
| F800-F1000           | 94.0                                            | 0.5                                                         | 0.5                                |                                                   |
| F1200                | 94.0                                            | 0.5                                                         | 0.7                                |                                                   |

## Green Silicon Carbide

Green Silicon Carbide is produced with petroleum coke, quartz sand and additive in furnace .

The grit and powder made of it is suitable working on hard alloy, brittle metals, non-ferrous metals such as copper, brass, aluminum, magnesium, non-metallic materials, gem, optical glass, ceramics, etc.

绿碳化硅

绿碳化硅主含量可达 99%以上，呈绿色。硬度较大，除用于磨料磨具外，适用于加工硬质合金，玻璃切割及研磨，铜等。

| Application | Grade | Grit Size   | Total SiC<br>mass % -<br>min. | Total SiO2<br>mass % -<br>max. | Fe<br>(Iron)<br>mass % -<br>max | C<br>(Carbon)<br>mass % -<br>max |
|-------------|-------|-------------|-------------------------------|--------------------------------|---------------------------------|----------------------------------|
| Abrasive    | AG    | F24-F100    | 99.0                          | 0.3                            | 0.25                            | 0.2                              |
|             |       | F120-F220   | 99.0                          | 0.3                            | 0.25                            | 0.2                              |
|             |       | F240-F400   | 98.5                          | 0.3                            | 0.25                            | 0.2                              |
|             |       | F500-F800   | 98.0                          | 0.4                            | 0.25                            | 0.2                              |
|             |       | F1000-F1500 | 98.0                          | 0.4                            | 0.25                            | 0.2                              |

## Black Silicon Carbide

Black silicon carbide is produced with petroleum coke, quartz sand and additives .

The powders are the perfect material that specifically manufactured to be used for general abrasive applications in bonded abrasive tools, lapping and polishing processes. It is widely used for grinding non-ferrous materials, finishing tough and hard materials, filling up ceramic parts when the processing cost is important.

碳化矽是以石英砂，石油焦為主要原料及添加劑高溫冶煉而成，呈黑色。用它製成的顆粒適用於磨料磨具製造，噴砂，拋光，加工石材，鐵，塑膠等材料及耐火材料。由於化學性能穩定，還是理想的耐酸城腐蝕材料。

| Application | Grade | Grit Size  | SIC<br>mass % - min. | Fe (Iron)<br>mass % - max | C (Carbon)<br>mass % -max | Magnetic<br>admixture<br>mass %- max |
|-------------|-------|------------|----------------------|---------------------------|---------------------------|--------------------------------------|
| Abrasive    | AG    | F12-F20    | 98.0                 | 0.25                      | 0.25                      | 0.13                                 |
|             |       | F24-F90    | 98.0                 | 0.25                      | 0.25                      | 0.15                                 |
|             |       | F100-F120  | 98.0                 | 0.25                      | 0.3                       | 0.15                                 |
|             |       | F150-F180  | 97.0                 | 0.3                       | 0.3                       | 0.15                                 |
|             |       | F230-F280  | 97.0                 | 0.3                       | 0.3                       | 0.15                                 |
|             |       | F320-F600  | 96.0                 | 0.4                       | 0.4                       | 0.15                                 |
|             |       | F800-F1000 | 95.0                 | 0.5                       | 0.5                       | 0.15                                 |
|             |       | F1200      | 94.0                 | 0.5                       | 0.5                       | 0.15                                 |

## Garnet

The specific gravity of garnet is 3.96g/cm<sup>3</sup>. The main inner structure of garnet is crystallized iron and alumina. It is suitable for free lapping or being used for making organic bonded abrasive tools. It also has non-abrasive application.

石榴石是铝(钙)硅酸盐(岛状结构)形成的矿产品,它熔点高,比重大,硬度大,耐酸耐磨度强、化学稳定性好.

| SiO <sub>2</sub> | Al <sub>2</sub> O <sub>3</sub> | FeO       | Fe <sub>2</sub> O <sub>3</sub> |
|------------------|--------------------------------|-----------|--------------------------------|
| 35.0~42.0        | 20.0~28.0                      | 25.0~32.0 | 5.0~10.0                       |



**ZXHS**

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