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**三惠新材料有限公司**  
Sanhui New Material Co., Ltd.



## Company Profile

Sanhui New Material Co.,Ltd. was founded in 2005, with two manufacturing plants locate in Jiaozuo, Henan Province, Qinyang, respectively which workshop covers more than 15000 square meters.

The company specializes in producing Black Silicon Carbide, Green Silicon Carbide, Brown Fused Alumina, White Fused Alumina, Chrome (Pink) Fused Alumina, macro grits and micro powder, finishing more than 20000 tons of abrasive granular sand annually.

The company is committed to the research, innovation, engineering applications of high-quality abrasives for customers around the world, with advanced air-jet mill, pickling, pure water fine rinsing technology, our abrasives are widely used in coated and bonded abrasive tools, carbon brushes, foam ceramics, honeycomb ceramics, ternary catalyst industrial ceramics, wear-resistant pipes, impellers, pump chambers, cyclones, mine hopper liners, silicon carbide semiconductor, sandblasting and other fields.

The company has independent intellectual property rights of core materials, aligning with the latest technology and materials, we are thriving and keep going forward together with our customers.

## Company Culture

Localization: The world's leading manufacturer of abrasives. Concepts: Integrity Quality Pragmatism Innovation

Goal: Internationalization, Branding, Specialization

Mission: Achievement of customers, Achievement brand, Achievement of employees

## Corporate Philosophy

Corporate Philosophy

Integrity creates quality, Innovation leads to the future

## Black Silicon Carbide

Black Silicon Carbide is mainly made from quartz sand, petroleum coke as the main raw materials and smelted by electric resistance furnace at high temperature. After procedure of lump crushing by ball mill, magnetic separation to remove iron, Finally we apply acid and water to wash it aim to ensure abrasive superior quality and cleaner surface.



### Product Parameters

| Pickling    |       |       |                                |
|-------------|-------|-------|--------------------------------|
| Grit Size   | SiC   | F.C.  | Fe <sub>2</sub> O <sub>3</sub> |
| P12-P220    | ≥99   | ≤0.15 | ≤0.15                          |
| P240-P500   | ≥99   | ≤0.15 | ≤0.15                          |
| P600-P1500  | ≥98.5 | ≤0.15 | ≤0.15                          |
| P2000-P5000 | >98   | ≤0.2  | ≤0.2                           |

| Bulk density |           |           |
|--------------|-----------|-----------|
| Grit Size    | High      | Low       |
| P220         | 1.4-1.5   | 1.35-1.40 |
| P180         | 1.4-1.5   | 1.35-1.40 |
| P150         | 1.45-1.54 | 1.35-1.45 |
| P120         | 1.45-1.55 | 1.35-1.45 |
| P100         | 1.48-1.58 | 1.35-1.45 |
| P80          | 1.46-1.56 | 1.35-1.47 |
| P60          | 1.47-1.57 | 1.4-1.47  |
| P50          | 1.47-1.55 | 1.41-1.48 |
| P40          | 1.48-1.56 | 1.41-1.48 |
| P36          | 1.48-1.56 | 1.41-1.48 |
| P30          | 1.48-1.56 | 1.41-1.49 |
| P24          | 1.48-1.58 | 1.41-1.49 |
| P20          | 1.49-1.6  | 1.41-1.49 |
| P16          | 1.49-1.6  | 1.41-1.49 |

| Granular : P12-P220 Micro Powder: P240-P3000 |  |
|--|--|
| Quality standard                             |  |
| Cleanness ≤400NTU                            | Electric Conductivity: ≤80us/cm                        |
| Particle Roundness: 0.85+0.05FC              | Coefficient of Dispersion (Particle Concentration) ≤28 |
| PH: 6-8                                      | Size Standard: F/P/JIS                                 |

### High Cleanness:

Put materials into the water in a glass and stir (water: with a ratio 1:4). The aqueous solution is clear and transparent, free of suspended matter, and free of floating matter.

### Bulk Density:

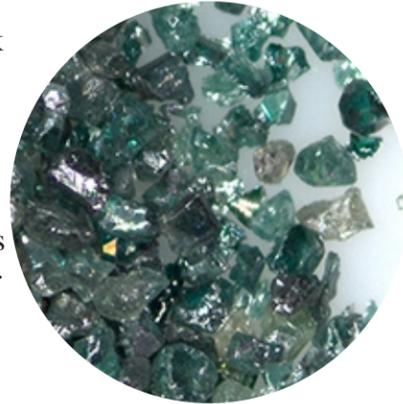
High & Low B.D. can be customized by customer requirements.

### High Purity:

The higher SiC content, the better hardness-sharpness and brittleness.

## Green Silicon Carbide

Green silicon carbide manufacturing method is the same as black silicon carbide, but require higher purity raw materials, green, translucent, hexagonal crystals formed at a high temperature of 2200°C in the resistance furnace, has the similarity physical properties as black silicon carbide and good toughness make it the best choice for high-grade refractory materials; It also possesses good thermal conductivity and semiconductor properties; After lump crushing by ball mill, magnetic separation to remove iron, we apply acid and water washing to clean materials aiming to ensure higher purity and good quality abrasives.



### Product Parameters

| Chemical composition |       |       |                                |
|----------------------|-------|-------|--------------------------------|
| Grit Size            | SiC   | F.C.  | Fe <sub>2</sub> O <sub>3</sub> |
| F12-F100             | ≥99.2 | ≤0.15 | ≤0.15                          |
| F120-F220            | ≥99   | ≤0.15 | ≤0.15                          |
| #240-#1000           | ≥99   | ≤0.15 | ≤0.15                          |
| #1200-#3000          | ≥98.5 | ≤0.2  | ≤0.2                           |
| #4000-#8000          | ≥98   | ≤0.2  | ≤0.2                           |

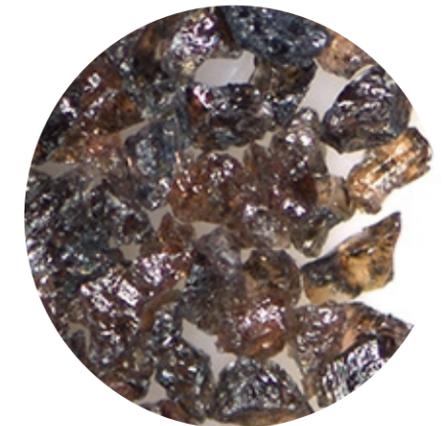
|                              |                               |
|------------------------------|-------------------------------|
| Color:                       | Green                         |
| Crystal Form:                | Alpha SiC                     |
| Shape:                       | Blocky, Sharp edged           |
| Friability:                  | Friable                       |
| Mohs hardness:               | 9.4                           |
| Knoop hardness (100 scale) : | 2600                          |
| Melting Point:               | Dissociates at ~2800°C        |
| Specific Gravity:            | 3.21g/cm <sup>3</sup> Min     |
| Bulk Density:                | 1.20-1.60 g / cm <sup>3</sup> |

## Brown Fused Alumina

Brown Fused Alumina, commonly known as corundum, is made from alumina, carbon, iron scrap mixed raw materials in the electric arc furnace through melting and reduction, which is also named as artificial corundum because of its color of dark brown. Brown corundum main chemical composition is Al<sub>2</sub>O<sub>3</sub>, content is between 95.00%-97.00%, and contains a small amount of Fe, Si, Ti, etc. Brown corundum is the most basic abrasive, because of its good grinding performance, extensive application, is widely used in a variety of industrial fields.

### Product Parameters

| Purpose                 | Specifications | Main chemical components%      |                                |                  |                  | Magnetic substance% |       |
|-------------------------|----------------|--------------------------------|--------------------------------|------------------|------------------|---------------------|-------|
|                         |                | Al <sub>2</sub> O <sub>3</sub> | Fe <sub>2</sub> O <sub>3</sub> | SiO <sub>2</sub> | TiO <sub>2</sub> |                     |       |
| Abrasive grinding tools | F              | 4#—80#                         | ≥95                            | ≤0.3             | ≤1.5             | ≤3.0                | ≤0.05 |
|                         |                | 90#—150#                       | ≥94                            |                  |                  |                     | ≤0.03 |
|                         |                | 180#—240#                      | ≥93                            | ≤0.3             | ≤1.5             | ≤3.5                | ≤0.02 |
|                         | P              | 8#—80#                         | ≥95.0                          | ≤0.2             | ≤1.2             | ≤3.0                | ≤0.05 |
|                         |                | 100#—150#                      | ≥94.0                          |                  |                  |                     | ≤0.03 |
|                         |                | 180#—220#                      | ≥93.0                          | ≤0.3             | ≤1.5             | ≤3.5                | ≤0.02 |
| W                       | 1#—63#         | ≥92.5                          | ≤0.5                           | ≤1.8             | ≤4.0             | —                   |       |



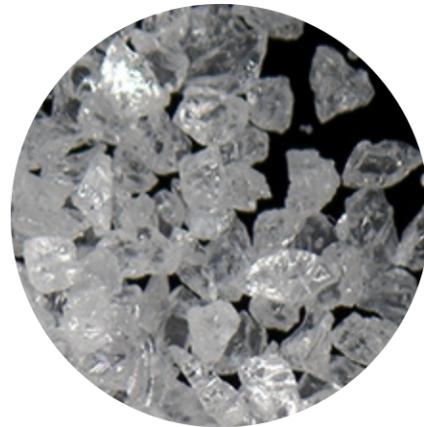
|   |  |
|---|--|
| Color                                   | Dark brown (dark blue after calcination) |
| Crystal form                            | tripartite crystal system                |
| Mohs Hardness                           | ≥9.0                                     |
| Melting point (°C)                      | 2250                                     |
| Maximum operating temperature (°C)      | 1900                                     |
| True density (g/cm <sup>3</sup> )       | ≥3.90                                    |
| Linear expansion coefficient (0—1600°C) | 7—9                                      |

## White Fused Alumina

White Fused Alumina abrasive is a kind of abrasive which is widely used. White corundum is produced from the purity of 99% aluminum oxide powder fused in the arc furnace by 2050°C and forms into crystal, so white corundum is also known as fused alumina or fused corundum. White corundum abrasive possesses high purity, good self-sharpness, acid and alkali corrosion resistance, high temperature resistance, hot state stability, its hardness is slightly higher than brown corundum, toughness is slightly lower, strong cutting force. White corundum is the main raw material for the production of abrasive products, ceramic filter membrane, refractory, grinding and polishing, sandblasting, rust removal, wear-resistant media, thermal conductive materials and other industries.

### Product Parameters

|                                | White fused aluminum particle size sand | white fused alumina | White fused aluminum section sand | White fused aluminum fine powder |
|--------------------------------|---|---------------------|-----------------------------------|----------------------------------|
| AL <sub>2</sub> O <sub>3</sub> | 99.53%                                  | 99.27%              | 99.59%                            | 99.28%                           |
| SiO <sub>2</sub>               | 0.13%                                   | 0.14%               | 0.01%                             | 0.14%                            |
| NA <sub>2</sub> O              | 0.23%                                   | 0.28%               | 0.24%                             | 0.27%                            |
| Fe <sub>2</sub> O <sub>3</sub> | 0.07%                                   | 0.06%               | 0.02%                             | 0.05%                            |
| CaO                            | 0.03%                                   | 0.05%               | 0.02%                             | 0.04%                            |



| Colour                           | White                                 |
|----------------------------------|---------------------------------------|
| Mohs hardness                    | 9                                     |
| Nup hardness                     | 2000-2200Kg/mm <sup>2</sup>           |
| Operating temperature            | 1900°C                                |
| Melting point                    | 2250°C                                |
| Proportion                       | 3.95g/cm <sup>3</sup>                 |
| Bulk density                     | 3.6g/cm <sup>3</sup>                  |
| Specific heat                    | 0.26cal/g.°C(20-90°C)                 |
| Thermal conductivity coefficient | 6.16W/ (m·K) (1000°C)                 |
| Linear expansion coefficient     | 8.0×10 <sup>-6</sup> /°C (200-1000°C) |
| Crystal form                     | Tripartite crystal system             |

## Chrome Fused Alumina

Chrome Fused Alumina main content is Aluminium Oxide with appropriate proportion of Chromium Oxide. It is melted at high temperature and forms into pink crystal. Its color is pink, hardness is similar to white corundum, toughness is higher than white corundum. The abrasives made with it have good durability and high grinding finish. Suitable for precision grinding of measuring tools, machine spindles, instrument parts, threaded workpieces and template honing and precision grinding etc.



### Product Parameters

| Chemistry       |                                | F12 ~ F80  | F90 ~ F150 | F180 ~ F220 |
|-----------------|--------------------------------|------------|------------|-------------|
| Low Chromium    | AL <sub>2</sub> O <sub>3</sub> | ≥98.5%     | ≥98.5%     | ≥98.0%      |
|                 | Cr <sub>2</sub> O <sub>3</sub> | 0.20-0.45% | 0.20-0.45% | 0.20-0.45%  |
|                 | NA <sub>2</sub> O              | ≤0.50%     | ≤0.55%     | ≤0.60%      |
| Medium Chromium | AL <sub>2</sub> O <sub>3</sub> | ≥98.2%     | ≥98.2%     | ≥97.8%      |
|                 | Cr <sub>2</sub> O <sub>3</sub> | 0.45-1.0%  | 0.45-1.0%  | 0.45-1.0%   |
|                 | NA <sub>2</sub> O              | ≤0.55%     | ≤0.60%     | ≤0.70%      |
| High Chromium   | AL <sub>2</sub> O <sub>3</sub> | ≥97.4%     | ≥97%       | ≥96.5%      |
|                 | Cr <sub>2</sub> O <sub>3</sub> | 1.0-2.0%   | 1.0-2.0%   | 1.0-2.0%    |
|                 | NA <sub>2</sub> O              | ≤0.55%     | ≤0.60%     | ≤0.70%      |

| Basic minerals                   | Crystal size | Mohs hardness | Nup hardness       | Melting point | Proportion                | Bulk density      | Colour | Crystal form    |
|----------------------------------|--------------|---------------|--------------------|---------------|---------------------------|-------------------|--------|-----------------|
| α-Al <sub>2</sub> O <sub>3</sub> | 600-800      | 9             | 2200-2300          | 2050°C        | 3.9-4.1 g/cm <sup>3</sup> | 1.40-1.91         | Pink   | Polygonal shape |
|                                  | μm           |               | kg/cm <sup>3</sup> |               |                           | g/cm <sup>3</sup> |        |                 |

## Surface Treated Series

Surface treated abrasive is a kind of abrasive that through coating a layer (like iron oxide red, etc) on the surface of abrasives. This is to improve the surface roughness and hydrophilicity to improve the cohesive force with the binder. This series is our the most recommended products, and consists of surface treated BFA in medium and high temperature, surface treated WFA and special surface treated WFA.



### SHGB F1

SHGB F1 is a red cubic abrasive grain with great durability and excellent heat dissipation ability. Compared with SHZB F1, the toughness, hardness, hydrophilicity, cleanliness and magnetic material content of SHGB F1 are improved. It's suitable for making top-grade resin bonded abrasives that hard board and heavy duty grinding wheel.

### Typical Physical Properties

| Crystallography  | Alpha alumina, in the hexagonal crystal system |                |           |
|------------------|--|----------------|-----------|
| Color            | Red  | Shape          | Cubic     |
| Mons' Hardness   | ≥9.0   | Knoop Hardness | 1990-2290 |
| Melting Point    | 2250° C  | Hydrophilicity | 238mm     |
| Particle Density | ≥3.95  | Toughness      | 66%       |

### Available Grits

| Grits | Bulk Density | Grits | Bulk Density | Grits | Bulk Density |
|-------|--------------|-------|--------------|-------|--------------|
| F12   | 1.93-2.03    | F36   | 1.80-1.90    | F90   | 1.65-1.75    |
| F14   | 1.92-2.02    | F40   | 1.78-1.88    | F100  | 1.62-1.72    |
| F16   | 1.91-2.01    | F46   | 1.76-1.86    | F120  | 1.60-1.70    |
| F20   | 1.91-2.01    | F54   | 1.74-1.84    | F150  | 1.57-1.67    |
| F22   | 1.89-1.99    | F60   | 1.72-1.82    | F180  | 1.54-1.64    |
| F24   | 1.87-1.97    | F70   | 1.70-1.80    | F220  | 1.52-1.62    |
| F30   | 1.83-1.93    | F80   | 1.68-1.78    |       |              |

### Available Grits

F12-F220

### Typical Chemical Analysis

|                                |       |
|--------------------------------|-------|
| SiO <sub>2</sub>               | 0.80  |
| Al <sub>2</sub> O <sub>3</sub> | 95.30 |
| Fe <sub>2</sub> O <sub>3</sub> | 1.01  |
| TiO <sub>2</sub>               | 2.40  |

## Calcined BFA Series

### Available Grits

| Grits | Bulk Density | Grits | Bulk Density | Grits | Bulk Density |
|-------|--------------|-------|--------------|-------|--------------|
| F12   | 1.93-2.03    | F36   | 1.82-1.92    | F90   | 1.68-1.78    |
| F14   | 1.92-2.02    | F40   | 1.80-1.90    | F100  | 1.66-1.76    |
| F16   | 1.90-2.00    | F46   | 1.78-1.88    | F120  | 1.63-1.73    |
| F20   | 1.89-1.99    | F54   | 1.77-1.87    | F150  | 1.60-1.70    |
| F22   | 1.88-1.98    | F60   | 1.75-1.85    | F180  | 1.58-1.68    |
| F24   | 1.87-1.97    | F70   | 1.73-1.83    | F220  | 1.56-1.66    |
| F30   | 1.85-1.95    | F80   | 1.71-1.81    |       |              |

SHZ F1 is a cubic brown fused alumina with high bulk density. Its mechanical strength, toughness, cleanliness and hardness are greatly improved than these of normal brown fused alumina. It has more better capacities of withstand high pressure, resist fracture and resist impact. This abrasive is suitable for making mid-range bonded abrasives.

### Available Grits

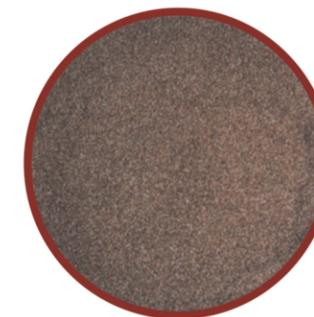
F4-F1200

### Typical Physical Properties

| Crystallography  | Alpha alumina, in the hexagonal crystal system |                |           |
|------------------|--|----------------|-----------|
| Color            | Brown  | Shape          | Cubic     |
| Mons' Hardness   | ≥9.0   | Knoop Hardness | 1950-2250 |
| Melting Point    | 2250° C  | Hydrophilicity | 170mm     |
| Particle Density | ≥3.95  | Toughness      | 60%       |

### Typical Chemical Analysis

|                                |       |
|--------------------------------|-------|
| SiO <sub>2</sub>               | 0.70  |
| Al <sub>2</sub> O <sub>3</sub> | 95.88 |
| Fe <sub>2</sub> O <sub>3</sub> | 0.07  |
| TiO <sub>2</sub>               | 2.64  |



SHZ/Products



SH+Q/Products

## F National standard for particle size sand

| Grit Size | Max Coarse grain |          | Coarse grain |          | Basic grain  |          | Mixed particles |          | Fine grain   |          |
|-----------|------------------|----------|--------------|----------|--------------|----------|-----------------|----------|--------------|----------|
|           | Sieve number     | % Weight | Sieve number | % Weight | Sieve number | % Weight | Sieve number    | % Weight | Sieve number | % Weight |
| F12       | 7#               | 0        | 10#          | 20       | 12#          | 45       | 14#             | 70       | 16#          | 3        |
| F14       | 8#               | 0        | 12#          | 20       | 14#          | 45       | 16#             | 70       | 18#          | 3        |
| F16       | 10#              | 0        | 14#          | 20       | 16#          | 45       | 18#             | 70       | 20#          | 3        |
| F20       | 12#              | 0        | 16#          | 20       | 18#          | 45       | 20#             | 70       | 25#          | 3        |
| F22       | 14#              | 0        | 18#          | 20       | 20#          | 45       | 25#             | 70       | 30#          | 3        |
| F24       | 16#              | 0        | 20#          | 25       | 25#          | 45       | 30#             | 65       | 35#          | 3        |
| F30       | 18#              | 0        | 25#          | 25       | 30#          | 45       | 35#             | 65       | 40#          | 3        |
| F36       | 20#              | 0        | 30#          | 25       | 35#          | 45       | 40#             | 65       | 45#          | 3        |
| F40       | 25#              | 0        | 35#          | 30       | 40#          | 40       | 45#             | 65       | 50#          | 3        |
| F46       | 30#              | 0        | 40#          | 30       | 45#          | 40       | 50#             | 65       | 60#          | 3        |
| F54       | 35#              | 0        | 45#          | 30       | 50#          | 40       | 60#             | 65       | 70#          | 3        |
| F60       | 40#              | 0        | 50#          | 30       | 60#          | 40       | 70#             | 65       | 80#          | 3        |
| F70       | 45#              | 0        | 60#          | 25       | 70#          | 40       | 80#             | 65       | 100#         | 3        |
| F80       | 50#              | 0        | 70#          | 25       | 80#          | 40       | 100#            | 65       | 120#         | 3        |
| F90       | 60#              | 0        | 80#          | 20       | 100#         | 40       | 120#            | 65       | 140#         | 3        |
| F100      | 70#              | 0        | 100#         | 20       | 120#         | 40       | 140#            | 65       | 200#         | 3        |
| F120      | 80#              | 0        | 120#         | 20       | 140#         | 40       | 170#            | 65       | 230#         | 3        |
| F150      | 100#             | 0        | 140          | 15       | 200#         | 40       | 230#            | 65       | 325#         | 3        |
| F180      | 120#             | 0        | 170#         | 15       | 200# 230#    | 40       | 230# 270#       | 65       | -            | -        |
| F220      | 140#             | 0        | 200#         | 15       | 230# 270#    | 40       | 270# 325#       | 60       | -            | -        |

## P National standard for particle size sand

| Grit Size | Large grain  |          | Max Coarse grain |          | Coarse grain |          | Basic grain  |          | Mixed particles |          | Fine grain |
|-----------|--------------|----------|------------------|----------|--------------|----------|--------------|----------|-----------------|----------|------------|
|           | Sieve number | % Weight | Sieve number     | % Weight | Sieve number | % Weight | Sieve number | % Weight | Sieve number    | % Weight | % Weight   |
| P12       | 6#           | 0        | 8#               | 1        | 10#          | 14±4     | 12#          | 61±9     | 14#             | 92       | 8          |
| P16       | 8#           | 0        | 12#              | 3        | 14#          | 26±6     | 16#          | 75±9     | 18#             | 96       | 4          |
| P20       | 12#          | 0        | 16#              | 7        | 18#          | 42±8     | 20#          | 86±9     | 25#             | 96       | 4          |
| P24       | 14#          | 0        | 18#              | 1        | 20#          | 14±4     | 25#          | 61±9     | 30#             | 92       | 8          |
| P30       | 16#          | 0        | 20#              | 1        | 25#          | 14±4     | 30#          | 61±9     | 35#             | 92       | 8          |
| P36       | 18#          | 0        | 25#              | 1        | 30#          | 14±4     | 35#          | 61±9     | 40#             | 92       | 8          |
| P40       | 25#          | 0        | 35#              | 7        | 40#          | 42±8     | 45#          | 86±9     | 50#             | 96       | 4          |
| P50       | 30#          | 0        | 40#              | 3        | 45#          | 26±6     | 50#          | 75±9     | 60#             | 96       | 4          |
| P60       | 35#          | 0        | 45#              | 1        | 50#          | 14±4     | 60#          | 61±9     | 70#             | 92       | 8          |
| P80       | 45#          | 0        | 60#              | 3        | 70#          | 26±6     | 80#          | 75±9     | 100#            | 96       | 4          |
| P100      | 50#          | 0        | 70#              | 1        | 80#          | 14±4     | 100#         | 61±9     | 120#            | 92       | 8          |
| P120      | 70#          | 0        | 100#             | 7        | 120#         | 42±8     | 140#         | 86±9     | 170#            | 96       | 4          |
| P150      | 80#          | 0        | 120#             | 3        | 140#         | 26±6     | 170#         | 75±9     | 200#            | 96       | 4          |
| P180      | 100#         | 0        | 140#             | 2        | 170#         | 15±5     | 200#         | 62±12    | 230#            | 90       | 10         |
| P220      | 120#         | 0        | 170#             | 2        | 200#         | 15±5     | 230#         | 62±12    | 270#            | 90       | 10         |

## National standard for particle size sand

| Grit Size | ds3 | ds50     | ds94 | Grit Size | perforated pipe | ds3 | ds50     | ds94 | Grit Size | ds0 | ds3 | ds50     | ds94 |
|-----------|-----|----------|------|-----------|-----------------|-----|----------|------|-----------|-----|-----|----------|------|
|           |     |          |      | P240      | 400             | 75  | 58.0±2.0 | 40   | #240      | 127 | 103 | 57.0±3.0 | 40   |
| F230      | 82  | 53.0±3.0 | 34   | P280      | 400             | 70  | 50.2±2.0 | 34   | #280      | 112 | 87  | 48.0±3.0 | 33   |
| F240      | 70  | 44.5±2.0 | 28   | P320      | 400             | 65  | 44.0±1.5 | 28   | #320      | 98  | 74  | 40.0±2.5 | 27   |
| F280      | 59  | 36.5±1.5 | 22   | P360      | 400             | 60  | 38.2±1.5 | 24   | #360      | 86  | 66  | 35.0±2.0 | 23   |
| F320      | 49  | 29.2±1.5 | 16.5 | P400      | 400             | 50  | 31.6±1.5 | 20   | #400      | 75  | 58  | 30.0±2.0 | 20   |
|           |     |          |      | P500      | 200             | 45  | 25.0±1.5 | 17   | #500      | 63  | 50  | 25.0±2.0 | 16   |
| F360      | 40  | 22.8±1.5 | 12   | P600      | 200             | 40  | 20.7±0.8 | 14   | #600      | 53  | 41  | 20.0±1.5 | 13   |
| F400      | 32  | 17.3±1.0 | 8    | P800      | 200             | 35  | 16.1±0.8 | 10.5 | #700      | 45  | 37  | 17.0±1.3 | 11   |
|           |     |          |      | P1000     | 100             | 30  | 13.5±0.5 | 9.5  | #800      | 38  | 31  | 14.0±1.0 | 9.0  |
| F500      | 25  | 12.8±1.0 | 5    | P1200     | 100             | 25  | 11.8±0.8 | 8.0  | #1000     | 32  | 27  | 11.5±1.0 | 7.0  |
| F600      | 19  | 9.3±1.0  | 3    | P1500     | 100             | 20  | 9.7±0.6  | 7.0  | #1200     | 27  | 23  | 9.5±0.8  | 5.5  |
|           |     |          |      | P2000     | 100             | 15  | 7.5±0.5  | 5.7  | #1500     | 23  | 20  | 8.0±0.6  | 4.5  |
| F800      | 14  | 6.5±1.0  | 2    | P2500     | 100             | 13  | 6.0±0.4  | 4.2  | #2000     | 19  | 17  | 6.7±0.6  | 4.0  |
|           |     |          |      | P3000     | 100             | 14  | 5.5±0.5  | 3.0  | #2500     | 16  | 14  | 5.5±0.5  | 3.0  |
| F1000     | 10  | 4.5±0.8  | 1    | P4000     | 50              | 11  | 4.0±0.5  | 2.0  | #3000     | 13  | 11  | 4.0±0.5  | 2.0  |
| F1200     | 7   | 3.0±0.5  | 1    | P5000     | 50              | 8.0 | 3.0±0.4  | 1.3  | #4000     | 11  | 8.0 | 3.0±0.4  | 1.3  |

### AVAILABLE GRIT SIZES

#### For Bonded Abrasives Application:

##### FEPA F

Macro:F12,F24,F30,F36,F40,F46,F54,F60,F80,F100,F120,F150,F180,F220

Micro: F240,F280,F320,F360,F400,F500,F600,F800,F1000,F1200

#### For Coated Abrasives Application:

##### FEPA P

Macro:P12,P14,P16,P20,P24,P30,P36,P40,P50,P60,P80,P100,P120,PI50,P180,P220

Micro: P240,P280,P320,P360,P400,P500,P600,P800,PI000,PI200,P1500,P2000,P2500,P3000,P4000,P5000

##### JIS

JIS240,JIS280,JIS320,JIS360,JS400,JIS500,JIS600,JIS700,JIS800,JISI000, JISI200, JISI500,JIS2000,

JIS2500,JIS3000, JIS4000, JIS6000,JIS8000

#### For Refractories Application:

Macro sizes: 0-1mm, 0.5-1mm,1-2mm,1-3mm,2-3mm,3-5mm,5-8mm, 0-10mm,0-25mm

Fine powder:0-0.1 mm,0-0.2mm,0-0.35mm,0-0.5mm,0.1-0.5mm,0.2-0.5mm,-200mesh,-240mesh,-325mesh

**Noted: Custom sizes and shapes are also available upon request**