

REGULAR BROWN FUSED ALUMINA

DESCRIPTION

DOMILL carefully selects first grade of brown fused alumina crude from our furnace factory, and does crushing, grading in strict accordance with the requirements. The made grains have the advantages of high purity, stable chemical properties, are suitable for resin bonded abrasives manufacturing. According to the particle size, the DOMILL marks are A12, A15 and A18.

APPLICATIONS

A12 is sharp, low bulk density with strong self-sharpness. The resin abrasives of manufactured has better sharpness, good heat dissipation effect and high grinding efficiency, working for low carbon steel and alloy steel.

A15 is angular, medium bulk density. The resin & rubber abrasives of manufactured has good sharpness, durability, high grinding efficiency, working for low carbon steel, alloy steel and hard wood.

A18 is blocky, the particles are regular, neat, high bulk density, toughness, high durability. The resin & rubber abrasives of manufactured, widely used in heavy duty grinding wheels, working for carbon steel, malleable cast iron and more.

GRITS AVAILABLE: F4-F1200

Customized sizes available upon request

TYPICAL CHEMICAL ANALYSIS

| Al ₂ O ₃ | Fe ₂ O ₃ | SiO ₂ | TiO ₂ |
|--------------------------------|--------------------------------|------------------|------------------|
| 95.55 | 0.08 | 1.05 | 2.50 |

TYPICAL PHYSICAL PROPERTIES

| Mineral Composition | Alpha Alumina | Color | Brown |
|---------------------|---------------|----------------------|-----------|
| Mons' Hardness | ≥9.0 | Knoop Hardness | 1900-2200 |
| Melting Point | 2090°C | Hydrophilicity (F46) | 125mm |
| Specific Gravity | ≥3.90 | Toughness (F24) | 42% |

TYPICAL BULK DENSITY

| GRITS | BULK DENSITY | | |
|-------|--------------|-----------|-----------|
| | A12 | A15 | A18 |
| F12 | 1.78-1.86 | 1.87-1.93 | 1.94-2.02 |
| F14 | 1.78-1.86 | 1.87-1.93 | 1.94-2.02 |
| F16 | 1.78-1.86 | 1.86-1.92 | 1.93-2.01 |
| F20 | 1.76-1.84 | 1.85-1.91 | 1.92-2.00 |
| F22 | 1.75-1.83 | 1.84-1.90 | 1.91-1.99 |
| F24 | 1.73-1.81 | 1.82-1.88 | 1.89-1.97 |
| F30 | 1.71-1.79 | 1.80-1.86 | 1.87-1.95 |
| F36 | 1.68-1.76 | 1.77-1.83 | 1.84-1.92 |
| F40 | 1.65-1.73 | 1.74-1.80 | 1.81-1.89 |
| F46 | 1.63-1.71 | 1.72-1.78 | 1.79-1.87 |
| F54 | 1.60-1.68 | 1.69-1.75 | 1.76-1.84 |
| F60 | 1.58-1.66 | 1.67-1.73 | 1.74-1.82 |
| F70 | 1.56-1.64 | 1.65-1.71 | 1.72-1.80 |
| F80 | 1.53-1.61 | 1.62-1.68 | 1.69-1.77 |
| F90 | 1.51-1.59 | 1.60-1.66 | 1.67-1.75 |
| F100 | 1.49-1.57 | 1.58-1.64 | 1.65-1.73 |
| F120 | 1.47-1.55 | 1.56-1.62 | 1.63-1.71 |
| F150 | 1.45-1.53 | 1.54-1.60 | 1.61-1.69 |
| F180 | 1.43-1.51 | 1.52-1.58 | 1.59-1.67 |
| F220 | 1.42-1.50 | 1.51-1.57 | 1.58-1.66 |