

Brown Fused Alumina Powder

Color:Brown
Mosh hardness:9.0
Melting point:2250
The maximum temperature:1900
Specific gravity:3.6-3.9g/cm³
Bulk density:1.53-1.99g/cm³
Real density:3.90g/cm³



Brown Fused Aluminum Oxide(Brown Fused Alumina) is a tough, long-lasting material. It is made from bauxite, carbon materials, iron filings as raw material through melting in the electric furnace. It is brown in color as it has a slightly higher level of impurities than white aluminum oxide. Brown Fused Aluminum Oxide is a high strength, wear-resistant material possessing a strong ability to resist vigorous chemical attacks (such as acid and alkali) at extreme temperatures. Typical applications for the Brown Fused Aluminum Oxide include blasting and grinding.

Advantages

- ① Large crystal, high strength, good toughness, dense texture, high bulk density.
- ② Stable performance between batches.
- ③ The higher grinding efficiency and polishing brightness, the grinding efficiency is much higher than the soft abrasives such as silica.
- ④ Good particle appearance, high surface finish of the polished object.

Specifications and Composition

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: P24, P30, P36, P40, P50, P60, P80, P100, P120, P150, P180, P220

Micro: P240, P280, P320, P360, P400, P500, P600, P800, P1000, P1200, P1500, P2000, P2500

JIS

JIS240, JIS280, JIS320, JIS360, JIS400, JIS500, JIS600, JIS700, JIS800, JIS1000, JIS1200, JIS1500, 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.

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

Application

- ① Abrasive: Produce ceramic gring wheel, resinoid gringding wheel, Grinding stone, Gringing block, sand paper, sand cloth, sand belt, polish wax, abrasive paste, coating etc..
- ② Refractory material: Mainly used for abrasion and high temperature resiatant, inoxidizable aggregate and filling of shaped and monolithic refractory in steel metallurgy, various industrial stoves, electric furnace etc..
- ③ Sandblasting abrasive: Mainly used for various material workpieces to decontaminate, derusting, prevent corrosion, remove oxide skin etc..
- ④ Abrasion resistance ground: Mainly used for non-slip of airport and road, chenmical factory board paving.
- ⑤ Precision casting: Investment casting technics of stainless steel and aluminium casting in coating.