

Brown Fused Aluminum Oxide

Technical Data Sheet

11/2024

Brown Fused Aluminum Oxide

Brown corundum is a pure and non-toxic mineral made from high-quality bauxite, anthracite, and iron filings, and smelted by high-temperature electric arc at over 2000°C. Suitable for metal sandblasting, workpiece polishing, casting cleaning, etc.

- Contains no harmful free silicon substances.
- High hardness and toughness.
- Resistant to high temperature, acid, and alkali, with stable chemical properties.
- Recyclable and reusable, good economic benefits.
- High density, less dust during sandblasting.
- Low cost, high-cost performance.
- Wide range of applications, suitable for various metal and non-metal surface treatments.

DESIGNATION AND AVAILABLE SIZES

F Sand	μm	F Sand	μm	F Sand	μm	F Sand	μm	F Sand	μm	F Sand	μm
F12	1400-2000	F14	1180-1700	F16	1000-1400	F20	850-1180	F22	710-1000	F24	600-850
F30	500-710	F36	425-600	F40	355-500	F46	300-425	F54	250-355	F60	212-300
F70	180-250	F80	150-212	F90	125-180	F100	106-150	F120	90-125	F150	63-106
F180	63-90	F220	53-75								

CHEMICAL ANALYSIS

Typical values	Fe ₂ O ₃	Al ₂ O ₃	SiO ₂	TiO ₂
%	0.3-1.0%	92.5-97.0%	1.0-2.0%	1.5-4.0%

PHYSICAL PROPERTIES

	Numerical Value
Color:	Brown
Particle shape:	Angular
Hardness:	Mohs:9.0
Specific Gravity:	3.9-4.0g/cm ³
Bulk density(LPD):	1.5-2.0g/cm ³

PACKAGING

- 25kg drum + pallet/bag
- Larger size bags available on request

MAIN APPLICATIONS

- Remove burrs and oxides from electronic components;
- Polish precision gears and small bearings;
- Clean optical lenses and semiconductor surfaces;
- Used for surface fine-tuning and polishing of high-precision instruments;
- Removes residue and impurities from ceramic parts.



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