

Technical Data Sheet

Aluminum Oxide

Brown & White



Note: Read and follow the Blastline Blast machine operations manual and provide proper training for all users of the device in order to achieve a safe and effective blasting operation.



Description

Aluminum Oxide is a durable, sharp cutting and long-lasting grit used in blasting, grinding, surface preparation & blast cleaning. It is produced by a reduction fusion of high quality bauxites in electric arc furnaces. This product has high toughness and hardness for industrial operations, such as cleaning turbine blades & engine parts. Aluminum Oxide's quick cutting action is effective on difficult to remove debris from hard metal surfaces, as well as engraving monument markers.

Applications

Brown Fused Alumina is mainly used as a recyclable abrasive in blast cabinets and blast rooms. Because of its low iron content, alumina is often used in blasting operations where iron contamination on the non-ferrous metal substrate is not allowed. Aluminum oxide is a very hard and sharp abrasive that cleans rapidly. It leaves an anchor profile prior to coating and is suitable for removal of scale, rust and old coatings. Furthermore it is used for ceramic grinding wheels, refractory applications and polishing and grinding.

Advantages

- Cost effective blasting abrasive.
- It can be recycled and reclaimed for multiple passes in a blasting process.
- Aluminum Oxide is a harder abrasive than most, resulting in less shatter of the particles which results in lower dust levels.

Physical properties

Grain shape	Angular
Hardness	9.0 Mohs
Bulk density	1.70 - 1.92 g/cm ³
Specific gravity	Min. 3.90 g/cm ³
Colour	Brown, White

Size

F08	2000-2800 µm	F46	300-425 µm
F10	1700-2360 µm	F54	250-355 µm
F12	1400-2000 µm	F60	212-300 µm
F14	1180-1700 µm	F70	180-250 µm
F16	1000-1400 µm	F80	150-212 µm
F20	850-1180 µm	F90	125-180 µm
F22	710-1000 µm	F100	106-150 µm
F24	600-850 µm	F120	90-125 µm
F30	500-710 µm	F150	63-106 µm
F36	425-600 µm	F180	63-90 µm
F40	355-500 µm	F220	53-75 µm

Chemical Composition

Al ₂ O ₃	95.69%
TiO ₂	2.66%
SiO ₂	.83%
MgO	.29%
Fe ₂ O ₃	.28%