



## Brown fused alumina

### Areas of application

- Reusable abrasive, fine abrasive, dry abrasive, wet abrasive
- Bonded grinding wheels
- Grinding media on underlay
- Loose grinding medium
- Refractory products
- Aggregate/filler

### Blasting systems

- Pressure blast systems
- Injector blast cabinets

### Packaging

- 25 kg sacks on pallet up to 1t
- 1 t loose in a big bag

### Customer approvals

- CSS12 (Rolls-Royce)
- ABR 9-0160 (Airbus)
- PMC 3046 (Pratt & Whitney)
- PMC 3052 (Pratt & Whitney)
- PMC 3132 (Pratt & Whitney)

### Deliverable standards and specifications

- FEPA F Standard
- FEPA P Standard
- EN ISO 11126-7
- DIN ISO 8486-1
- DIN 8201-6
- MIL A-A-59316
- ANSI B74-12
- JIS R6001
- NF EN 4638
- D50TF5 Class A+D
- DMR71-100
- NF L 06-829

When it comes to a good price/performance ratio, normal corundum is the first choice for angular mineral products. In addition to its high hardness, normal corundum is also characterised by a pronounced toughness, which gives this iron-free blasting abrasive extreme stability.

### Physical properties

Hardness	9 mohs
Grain shape	angular
Melting point	approx. 1,950 °C
Specific gravity	approx. 3.9 – 4.1 g/cm <sup>3</sup>
Bulk density*	approx. 1.5 – 2.1 g/cm <sup>3</sup>

\*depending on granular size

### Typical chemical analysis

	Brown fused alumina macro	Brown fused alumina micro
Al <sub>2</sub> O <sub>3</sub>	95.65 %	94.20 %
TiO <sub>2</sub>	2.42 %	2.79 %
Fe <sub>2</sub> O <sub>3</sub>	0.12 %	0.33 %
SiO <sub>2</sub>	0.92 %	1.34 %
CaO	0.35 %	0.33 %



Comment: For safety reasons, we recommend that you use a protective strainer when filling the blasting equipment.



## Brown fused alumina

### Available grain sizes

Brown fused alumina macro			
FEPA	Grain size range (µm)	FEPA	Grain size range (µm)
F008	2000 – 2800	F046	300 – 425
F010	1700 – 2360	F054	250 – 355
F012	1400 – 2000	F060	212 – 300
F014	1180 – 1700	F070	180 – 250
F016	1000 – 1400	F080	150 – 212
F020	850 – 1180	F090	125 – 180
F022	710 – 1000	F100	106 – 150
F024	600 – 850	F120	90 – 125
F030	500 – 710	F150	63 – 106
F036	425 – 600	F180	53 – 90
F040	355 – 500	F220	45 – 75

Metric	Grain size range (mm)
	0.06 – 0.12
	0.12 – 0.25
	0.25 – 0.50
	0.50 – 1.00
	1.00 – 2.00
	1.00 – 3.00

Other grain sizes can be produced on request.

Brown fused alumina micro			
FEPA	Grain size range		
	ds3 factor max. µm	ds50 factor µm	ds94 factor min. µm
F230	82	53.0 +/- 3.0	34
F240	70	44.5 +/- 2.0	28
F280	59	36.5 +/- 1.5	22
F320	49	29.2 +/- 1.5	16.5
F360	40	22.8 +/- 1.5	12
F400	32	17.3 +/- 1.0	8
F500	25	12.8 +/- 1.0	5
F600	19	9.3 +/- 1.0	3
F800	14	6.5 +/- 1.0	2
F1000	10	4.5 +/- 0.8	1
F1200	7	3.0 +/- 0.5	1.0*

\*at 80 %

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