



## Technical data sheet

Material designation: **Brown Corundum**

Colour: Gray-brown

Crystallization structure:  $\alpha$ -Al<sub>2</sub>O<sub>3</sub>-trigonal

Komposition:	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>
	94.7 ± 0.2%	≤ 0.8%	≤ 0.35%	2.6-2.9 %



**Description:**

Normal corundum (brown aluminum oxide) is an iron-free blasting agent with an angular grain. Bauxite corundum is formed under high temperatures in the arc furnace. It has a high degree of hardness and is extremely tough. It can be used both in the dry blasting process (pressure blasting / injector blasting) and in the wet blasting process.

**Suitable for:**

- Cleaning of metallic surfaces (abrasive)
- Removal of paint
- Removing rust and descaling metallic surfaces
- Matting surfaces
- Preparation for application of protective layers
- Roughening metallic surfaces before coating
- Deburring
- Rays of stone
- For non-slip industrial floors



**Mechanical properties:**

Specific weight:  $\geq 3.90 \text{ g/cm}^3$   
Bulk weight:  $1,8 \text{ g/cm}^3$   
Hardness according to MOHS:  $\geq 9$   
VICKERS Hardness: HV 1800-2200  
Grain shape: angular  
Melting point:  $\geq 1950^\circ\text{C}$

EINECS No: 2156916  
CAS No: 1344-28-1  
REACH No: 05-2114594074-45-0000  
Customs tariff number: 28181091

**Packaging:** 25 kg bags  
Big Bags 1'000 kg

**Available grain sizes:**

FEPA	Range of grain sizes ca. $\mu\text{m}$
F 010	1400-2340
F 012	1180-2000
F 014	1000-1700
F 016	850 -1400
F 020	700 -1190
F 022	610 -1000
F 024	500 - 850
F 030	425 - 710
F 036	350 - 600
F 040	300 - 500
F 046	250 - 425
F 054	210 - 355
F 060	180 - 300
F 070	150 - 250
F 080	125 - 212
F 090	105 - 180
F 100	75 - 150
F 120	60 - 125
F 150	45 -106
F 180	50 - 90
F 220	45 - 75

The quality corresponds to the current standards **FEPA / JIS / ANSI sieve**.

Normal corundum is the fourth hardest mineral after diamonds (MOHS 10), moissanite (MOHS 9.5) and quingsonite (MOHS 9.5). Steels with a Rockwell hardness HR = 60.5 are MOHS 7.



**Safety regulations:**

Normal corundum and its secondary components are existing substances within the meaning of the Chemicals Act and are registered under the following number in the European inventory of existing substances (EINECS).

Normal corundum is not a hazardous substance in terms of the Ordinance on Hazardous Substances. A MAK value has not been specified for corundum dust. The general dust limit for fine dust of 3 mg / m<sup>3</sup> (fine dust) and 10 mg / m<sup>3</sup> (inhalable dust) must be applied (MAK value as of 2013).

Normal corundum can be disposed of with household waste if the local regulations are observed. It is not subject to the statutory obligation to provide evidence according to the Waste Act.

**All information is based on information provided by our supplier**