

Product information

ALUMINIUM OXIDE - granulate and balls

Al₂O₃ 90%

Characteristic and use:

granulate: produced by pelletizing-process, unround beads
grinding balls: produced by dry-pressing-process, round beads with press-rim

ceramic materials are resistant against corrosive influence of the atmosphere also in surroundings of media with content of salt, acid and alkali, gas, steam and deposits - with the exception of hydrofluoric acid.

Diameters:

granulate	granulate	grinding balls
0,75 - 1,50 mm		19 mm
1,50 - 2,50 mm	6,00 - 8,00 mm	22 mm
2,50 - 3,50 mm	7,00 - 9,00 mm	25 mm
3,00 - 4,00 mm	9,00 - 11,00 mm	32 mm
3,00 - 5,00 mm		38 mm
3,50 - 4,50 mm		44 mm
5,00 - 7,00 mm		51 mm
6,00 - 7,00 mm	ask for special sizes	63 mm

Technical properties:

Shape	round
Density (spec. gravity)	3,63 ±0,07 g/cm ³
Hardness according to Mohs	~ 9
Hardness according to Rockwell 45 N	80 ± 3
Surface	smooth, dense without porosity
Modulus of elasticity (Young)	2,7 kq/cm ³ x 10 ⁶
Settled apparent density	2,0 - 2,1 kg/dm ³
Crushing strength acc. to diameter	> 2.100 N/mm ²
Flexural strength	> 320 N/mm ²
Purity	---
Deformation temperature	up to 1.600°C
Water absorption	not detectable

Chemical composition:

Al ₂ O ₃	90,0%	oxides of alkaline metals	5,0%
SiO ₂	4,5%		

Packing:

- in bags with 25 kgs each

Storage:

in dry rooms

Product information

ALUMINIUM OXIDE - granulate and balls

Al₂O₃ 92%

Characteristic and use:

granulate: produced by pelletizing-process, unround beads
 grinding balls: produced by dry-pressing-process, round beads with press-rim
 ceramic materials are resistant against corrosive influence of the atmosphere also
 in surroundings of media with content of salt, acid and alkali, gas, steam and
 deposits - with the exception of hydrofluoric acid.

Diameters:

granulate standard	granulate special sizes	grinding balls
0,5 - 1,5 mm	0,5 - 1,0 mm	7 mm
1,5 - 2,5 mm	1,0 - 1,5 mm	11 mm
2,5 - 3,5 mm	1,0 - 2,0 mm	16 mm
3,5 - 4,5 mm	2,0 - 2,5 mm	25 mm
4,5 - 5,5 mm		30 mm
		40 mm
		50 mm
		60 mm

Technical properties:

Shape	round
Density (spec. gravity)	3,5 g/cm ³
Hardness according to Mohs	≥ 8
Coefficient of thermal expansion	7-8 x 10 ⁻⁶ K ⁻¹ (20 - 600°C)
Surface	smooth, dense without porosity
Modulus of elasticity (Young)	min. 300 GPa
Settled apparent density	2,1 - 2,2 kg/dm ³
Crushing strength acc. to diameter	---
Flexural strength	200 N/mm ²
Purity	food-pure
Deformation temperature	1.450° without pressure
Using temperature	max. 1.500°C
Thermal conductivity	18 W/m K (20-100°C)

Chemical composition:

Al ₂ O ₃	92,0%	MgO	3,0%
SiO ₂	2,6%	CaO	2,5%

Packing:

- in units with 25 kgs each
- granulate in poly-bags
- balls in jute-bags

Storage:

in dry rooms

Subject to change - All information is given in good faith but without warranty. We cannot accept responsibility or liability for any damage, resulting from the use of this information

Product information

ALUMINIUM OXIDE - balls

Al₂O₃ 92%

Characteristic and use:

grinding balls are produced by dry-pressing-process, round beads with press-rim ceramic materials are resistant against corrosive influence of the atmosphere also in surroundings of media with content of salt, acid and alkali, gas, steam and deposits - with the exception of hydrofluoric acid.

Diameters:

7 mm	25 mm	45 mm
12 mm	30 mm	50 mm
20 mm	35 mm	63 mm
	40 mm	

Technical properties:

Shape	round
Density (spec. gravity)	> 3,6 g/cm ³
Hardness according to Mohs	~ 9
Coefficient of thermal expansion	---
Surface	smooth, dense without porosity
Modulus of elasticity (Young)	---
Settled apparent density	2,2 - 2,3 kg/dm ³
Crushing strength acc. to diameter	> 2.250 N/mm ²
Flexural strength	> 340 N/mm ²
Purity	---
Deformation temperature	up to 1.300°C
Water absorption	--

Chemical composition:

Al ₂ O ₃	92,0%	MgO	2,35%
SiO ₂	3,5%	Na ₂ O	< 0,2%
Fe ₂ O ₃	< 0,5%	CaO	1,9%

Packing:

- in jute-bags with 50 kgs each

Storage:

in dry rooms

Subject to change - All information is given in good faith but without warranty. We cannot accept responsibility or liability for any damage, resulting from the use of this information