

## Product information

# ALUMINIUM OXIDE - Inert balls

$\text{Al}_2\text{O}_3 > 99\%$

### Characteristic and use:

Aluminium oxide Inert balls are most suitable as filler in catalysers due to its regular shape.

They are also used as current recifier or heat accumulator in regenerative burners.

### Diameter:

1/8" $\approx$ 2 - 5 mm	1/2" $\approx$ 12 - 14 mm	1 1/4" $\approx$ 28 - 32 mm
1/4" $\approx$ 5 - 7 mm	5/8" $\approx$ 14,3 - 18,7 mm	1 1/2" $\approx$ 33 - 38 mm
3/8" $\approx$ 9 - 11 mm	3/4" $\approx$ 18 - 21 mm	2" $\approx$ 50 - 55 mm
	1" $\approx$ 23 - 27 mm	

### Technical properties:

Shape	round
Density (spec. Gravity)	3,0-3,6 g/cm <sup>3</sup>
Hardness accoring to Mohs	9
Heat conductivity	19 - 30 W/mK (30-100 °C)
Specific heat capacity	850 - 1050 J/kg K (30-100 °C)
Coefficient of thermal expansion	7 - 9 $10^{-6}\text{K}^{-1}$
Surface	smooth
Modulus of elasticity (Young)	300 GPa
Settled apparent density	2,0 - 2,2 kg/dm <sup>3</sup>
Crushing strength (kg) acc. to diameter	300 - 1500
Flexural strength	---
Purity	---
Deformation temperature	up to 1500 °C
Water bsorption	max. 2 - 6 Gew. %

### Chemical composition:

$\text{Al}_2\text{O}_3 + \text{TiO}_2$	> 99%	MgO + CaO	< 0,20%
$\text{SiO}_2$	< 0,15%	$\text{Na}_2\text{O} + \text{K}_2\text{O}$	< 0,40%
$\text{Fe}_2\text{O}_3$	< 0,12%	lösl. Eisen	< 15 mg/kg

### Packing:

- in bags with 25 kg each

### Storage:

in dry rooms

All information is given in good faith but without any warranty.