

Product information

STEATITE - granulate and balls

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, alkali gas, steam and deposits - with the exception of hydrofluoric acid.

Diameters:

granulate	grinding balls	
0,5 - 1,5 mm	3 mm	25 mm
1,5 - 2,5 mm	6 mm	30 mm
2,5 - 3,5 mm	10 mm	40 mm
3,5 - 4,5 mm	12 mm	50 mm
4,5 - 5,5 mm	16 mm	60 mm
	20 mm	70 mm

ask for special sizes

Technical properties:

Shape	round
Density (spec.gravity)	min. 2,55 g/cm ³
Hardness according to Mohs	≥ 7
Coefficient of thermal expansion	7-9 x 10 ⁻⁶ K ⁻¹ (20-600°C)
Surface	smooth, dense without porosity
Modulus of elasticity (Young)	min. 80 GPa
Settled apparent density	1,4 - 1,6 kg/dm ³
Crushing strength acc. to diameter	min. 850 N/mm ²
Flexural strength	min. 120 N/mm ²
Purity	food-pure
Deformation temperature	ca. 1.400°C
Specific heat capacity	800 - 900 J/kg K (20 - 100°C)
Thermal conductivity	3 W/m. K (20 - 100°C)

Chemical composition:

SiO ₂	max. 64,0%	Fe ₂ O ₃ + TiO ₂	1,4%
MgO	31,0%	CaO, Na ₂ O + K ₂ O	1,2%
Al ₂ O ₃	4,0%		

Packing:

- in units with 25 kgs each
- granulate in poly-bag
- beads in jute-bag

Storage:

in dry rooms