

Product information

S A Z ER 120 S

zirconium silicate ZrO₂ 68% - electro-fused ceramic grinding media

Characteristic and use:

S-quality - pearls are pre-bounced, the broken pieces will be extracted.

Recommended applications:

- pigments, inks, dyes, paints- and varnish industry
- plant protection, minerals, ceramic industry
- magnetcal, piezo-electrical and dielectrical materials

Diameter:

S-quality wide screening		S-quality close screening	
0,30 - 0,70 mm	1,25 - 2,00 mm	0,10 - 0,20 mm	0,80 - 1,00 mm
0,40 - 0,70 mm	1,60 - 2,50 mm	0,20 - 0,30 mm	1,00 - 1,25 mm
0,60 - 1,00 mm		0,30 - 0,40 mm	1,25 - 1,60 mm
0,80 - 1,25 mm		0,40 - 0,60 mm	1,60 - 2,00 mm
1,00 - 1,60 mm		0,60 - 0,80 mm	

Technical properties:

Shape	roundness factor > 0,7 at S-quality: 95% of the pearls
Density (spec. gravity)	3,8 g/cm ³
Hardness according to Vikcers	700 HV1
Coefficient of thermal expansion	0,9% between 0 - 1.000°C
Surface	smooth, dense without porosity
Modulus of elasticity (Young)	100 GPa
Settled apparent density	2,3 kg/dm ³
Crushing strength acc. to diameter	dia 2 mm = 700 N/mm ²
Purity	food-pure
Deformation temperature	1.400 - 1.500°C
Thermal conductivity	0,6 W/m°K (950°C)
Specific heat capacity (Cp)	627 J/kg°K at 100°C 753 J/kg°K at 600°C

Chemical Composition

ZrO ₂	ca. 64 - 70%	Crystallographic analysis ca. 66% monoclinic zirconia ca. 34% vitreous phase
SiO ₂	ca. 29 - 39%	
others	ca. 5%	

Packing:

- in units with 25 kgs each
- in plastic cans

Storage:

in dry rooms