

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 ware will be extracted.

Diameters:

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

Technical properties:

Shape	roundness factor > 0,7 at S-quality: 95% of the pearls
Density (spec. gravity)	3,8 g/cm³
Hardness according to Mohs	7
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	2,4 kg/dm³
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	68%	Crystallographic analysis: 68% monoclinic zirconia (crystal) 32% vitreous phase
SiO ₂	31%	
other oxides	1%	

Packing:

- in units with 25 kgs each
- in plastic cans

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