

Product information

Z S - F

zirconium silicate ZrO₂ 62 - 65%

Characteristic and use:

These electro-fused ceramic grinding balls are characterized by high density and micro hardness. This guarantees high shock resistance, low wear rates and fast cleaning due to smooth surface. Typical applications are:

- organic pigments and active substances
- chemicals, pigments
- varnishes paints, colourings
- magnetic coatings

Diameters:

0,1 - 0,2 mm	0,4 - 0,6 mm	1,2 - 1,6 mm
0,2 - 0,3 mm	0,6 - 0,85 mm	1,6 - 2,0 mm
0,3 - 0,4 mm	0,85 - 1,2 mm	1,6 - 2,5 mm
	1,0 - 1,4 mm	

Technical properties:

Shape	roundness factor > 0,8 at 98% of the pearls
Density (spec. gravity)	3,85 - 3,90 g/cm ³
Hardness according to Mohs	> 7
Coefficient of thermal expansion	---
Surface	smooth, dense without porosity
Modulus of elasticity (Young)	---
Settled apparent density	2,3 - 2,4 kg/dm ³
Crushing strength acc. to diameter	710 N/mm ²
Purity	---
Deformation temperature	2.200°C
Thermal conductivity	---
Specific heat capacity (Cp)	---

Chemical composition:

ZrO ₂	62 - 65%	Al ₂ O ₃	5%
SiO ₂	27 - 32%	HfO ₂	1,21%
Y ₂ O ₃	0,14%	others	> 3%

Packing:

- in units with 25 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