

Product information

Y Z S - F

zirconium silicate (ytt-stab.) ZrO₂ 76,5%

Characteristic and use:

These electro-fused ceramic grinding balls have a very low wear rate and are strong as yttrium stabilized beads. With the lower real density of 4,8g more volume = more beads can be reached by one kg. If this lower density is accepted, YZS-F beads can replace yttrium stabilized zirconium oxide beads in many fields.

Diameters:

0,1 - 0,2 mm	0,6 - 0,85 mm	1,6 - 2,25 mm
0,2 - 0,4 mm	0,85 - 1,2 mm	2,0 - 2,5 mm
0,4 - 0,6 mm	1,2 - 1,6 mm	

Technical properties:

Shape	roundness factor > 0,8 more than 98%
Density (spec. gravity)	4,8 g/cm³
Hardness according to Mohs	8
Coefficient of thermal expansion	- - -
Surface	smooth, dense without porosity
Modulus of elasticity (Young)	- - -
Settled apparent density	3,05 - 3,10 kg/dm³
Crushing strength acc. to diameter	dia 1,6 mm = >160 Kgf
Purity	- - -
Deformation temperature	2.200°C smelting point
Thermal conductivity	- - -
Specific heat capacity (Cp)	- - -

Chemical composition:

ZrO ₂	76,5%	Al ₂ O ₃	5,0%
SiO ₂	12,5%	MgO ₂	0,5%
Y ₂ O ₃	5,5%		

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