

## Product information

# YZS - F

zirconium silicate (ytt-stab.) ZrO<sub>2</sub> 76,5%

### Characteristic and use:

These electro-fused ceramic grinding balls have a very low wear rate and are as strong as yttrium stabilized beads. With the lower real density of 4,8 g 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	1,2 - 1,6 mm
0,2 - 0,4 mm	0,85 - 1,2 mm	1,6 - 2,25 mm
0,4 - 0,6 mm		2,0 - 2,5 mm

### Technical properties:

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

### Chemical composition:

ZrO <sub>2</sub>	76,5%	Al <sub>2</sub> O <sub>3</sub>	5,0%
SiO <sub>2</sub>	12,5%	MgO <sub>2</sub>	0,5%
Y <sub>2</sub> O <sub>3</sub>	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