

## Yttria-Alumina-Zirconia – YAZ

### Characteristics

- Fused Yttria -Alumina- Zirconia in percentage 99.0/0.5/0.5%
- Melting point: 2.400°C (4.352°F).
- Molecular weight: 220 g/mol.
- Appearance: white to light grey powder.

### Application

- Investment Casting.

### Chemical Analysis

TREO	Y <sub>2</sub> O <sub>3</sub>	
min. 98.6 %	min. 98.6 %	
Other chemical combinations are available on customer request		

### Purity

La <sub>2</sub> O <sub>3</sub>	<100 ppm	Al <sub>2</sub> O <sub>3</sub>	0.3-0.7 %
CeO <sub>2</sub>	<100 ppm	ZrO <sub>2</sub>	0.3-0.7 %
P <sub>6</sub> O <sub>11</sub>	<100 ppm	U238	<5 ppm
Fe <sub>2</sub> O <sub>3</sub>	<300 ppm		

### Particle Size Parameters

Fused	Fused	Fused
-325 mesh	-200 mesh	125-250 µm

PSD can be manufactured on customers request.

All particle size analysis with Microtrac.

### Physical Parameters

Surface Area (BET)	< 3.0 m <sup>2</sup> /g	from 1 to 20 m <sup>2</sup> /g
Apparent Density	min 4.6 g/cm <sup>3</sup>	
XRD (phase analysis)	Available	On Request
LOI	<1 wt[%]	



### Packing

- 20 kg, 25 kg and 50 kg in pails
- 1000 kg and 500 kg in sacks

### Maximum Lot Size

- 1.500 kg

Inspection certificate according to  
EN 10204 3.1  
Material manufactured in accordance  
with ISO 9001