

## ZTA nanopowders

### Our offer

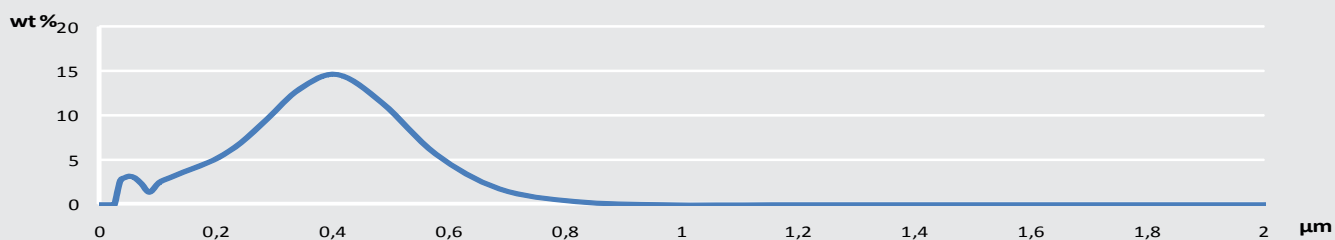
We offer two main types of ZTA nanopowders: one with binding system (ZTA-BA), one without (ZTA). Our ZTA is a homogeneous mix of our 150nm alpha alumina (80wt%) and our 12nm yttria stabilised zirconia (20wt%). The powders are available in spray-dried granulates or slurries. Customized ZTA nanopowders are available on demand, with different weight ratio between alumina and zirconia.

### Key Benefits

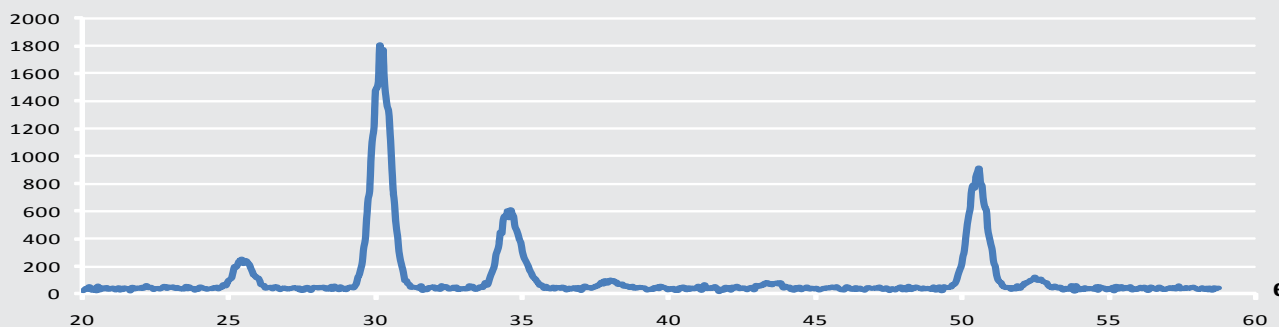
- Higher toughness than alumina
- Extremely high hardness
- Better wear resistance

Purity		ZTA
Al <sub>2</sub> O <sub>3</sub>	wt%	80%
ZrO <sub>2</sub>	wt%	18,8%
Y <sub>2</sub> O <sub>3</sub>	wt%	1%
HfO <sub>2</sub>	wt%	0,2%
SiO <sub>2</sub>	ppm	< 30
CaO	ppm	< 175
K <sub>2</sub> O	ppm	< 200
Fe <sub>2</sub> O <sub>3</sub>	ppm	< 20
Na <sub>2</sub> O	ppm	< 20

### Aggregates



### X ray diagram



### Nanoe

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