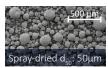
Characteristics

Standard Zirconia Products (Typical values)		BSZ3Y	BSZ8Y	ZTA80	ATZ80
Description		3mol% Yttria	8mol% Yttria	80%vol Al₂O₃	80%vol BSZ3Y
Crystalline phase		Tetragonal Monoclinic	Cubic	-	
Specific Surface Area (m²/g) BET		15			
Particle Size Distribution (μm)	d ₅₀	0.15			
Elemental Analysis (ppm) <i>ICP</i>	Ca	≤ 30			
	Cr	≤ 2			
	Fe	≤ 10			
	K	≤ 30			
	Na	≤ 40			
	Si	≤ 100			

BSZ: Baikowski® Stabilized Zirconia ZTA: Zirconia Toughened Alumina ATZ: Alumina Toughened Zirconia

- > Zirconia product range characteristics:
- High chemical purity
- Controlled in particle size and size distribution
- Homogeneous distribution of Al₂O₃ and BSZ3Y particles
- > Available in **bulk powder**, **spray-dried powder** and **slurry**

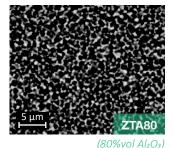


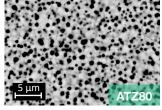




Our Zirconia products show **high sintering reactivity** leading to a **low firing temperature** & fine microstructure.

> SEM pictures of ZTA and ATZ:





(80%vol BSZ3Y)

Applications













Baikowski® also offers cutomized ZTA/ATZ products:

- Zirconia stabilizer (Y, Ce, Ca...; molar ratio)
- Colored dopant
- Third phase for improved fracture toughness



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