

### ✂ ULTRAFINE ZIRMIL® Y IS THE FINEST CERAMIC BEAD FOR HIGH ENERGY NANOMILLING WITH MINIMUM WEAR

Ultrafine Zirmil® Y is based upon a unique in-house technology using ZirPro's advanced yttria-stabilized zirconia, which provides optimized properties for the nanomilling of all suspensions.

- Ultrafine and narrow beads size distribution for a better control of the final grind at nanoscale level
- High ceramic density for high energy milling
- Well controlled homogeneous grain size for high wear resistance

#### CHEMICAL ANALYSIS

Typical values	ZrO <sub>2</sub>	Y <sub>2</sub> O <sub>3</sub>	Others
wt%	93	5	2

#### STANDARD SIZES

Nominal (mm)	Range (µm)
0.1	90 – 125
0.05	50 – 70
0.03	30 – 45

*Other sizes available on demand*

#### PHYSICAL PROPERTIES

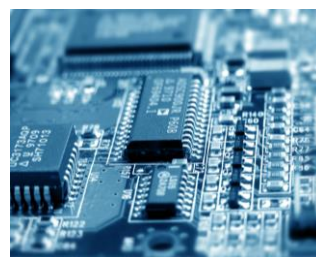
	Typical values	Units
Specific gravity	6.0	g/cm <sup>3</sup>
Bulk density	3.7	kg/l
Vickers hardness	1250	HV1

#### PACKAGING

- 1kg, 5kg, 10kg, 20kg plastic containers

#### MAIN APPLICATIONS

- Li-ion battery materials
- MLCC
- Digital inks



#### SEPR - SAINT-GOBAIN ZIRPRO

B.P. 60025 - Bâtiment L  
539, route de Sorgues  
84131 Le Pontet Cedex - France  
zirpro@saint-gobain.com  
Tél : +33 4 90 32 70 02  
www.zirpro.com