

## ✂️ ULTIMIL: ULTRA-HIGH DENSITY CERAMIC BEADS PUSHING THE LIMITS OF HIGH ENERGY NANO-MILLING

Ultimil is an innovative ceramic bead based on pure Tungsten Carbide developed by Saint-Gobain ZirPro. Ultimil's extremely high density and hardness enable to achieve the finest sizes with optimal efficiency.

Ultimil is a clear breakthrough in milling medias that will define new standards in high-energy milling applications!

- Ultra high density for a significantly increased milling energy
- Extreme hardness and pure tungsten carbide to minimize wear and avoid contamination: no cobalt – no nickel
- Ultrafine and narrow bead size distribution for a better control of the final grind at nanoscale level

### CHEMICAL ANALYSIS

Typical values	WC	Others
wt%	99	<1

### STANDARD SIZES

Name	Nominal (µm)	Range (µm)
TC 70	70	65 – 80
TC 50	50	50 – 65

*Other sizes available on demand*

### PHYSICAL PROPERTIES

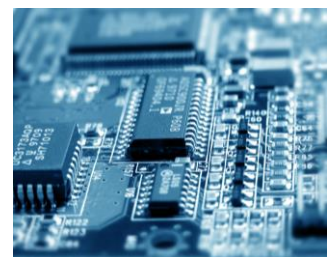
	Typical values	Units
Specific gravity	15	g/cm <sup>3</sup>
Bulk density	9	kg/l
Vickers hardness	2000	HV

### PACKAGING

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

### MAIN APPLICATIONS

- Li-ion battery materials
- Digital inks



The contents of this data sheet are given in good faith but without warranty

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