



## NANOE UHTC datasheet

### PRODUCT DESCRIPTION

**Nanoe UHTC** is a composite powder of  $\text{ZrB}_2$ ,  $\text{SiC}$  and  $\text{B}_4\text{C}$ . It has been specifically developed for pressureless sintering. The powder is available as a binderless powder, a ready to press powder for isostatic or die pressing, and a feedstock for injection molding.

### PROPERTIES

Trade name	NANOE UHTC
Chemical composition	$\text{ZrB}_2$ (77%), $\text{SiC}$ (19%) and $\text{B}_4\text{C}$ (4%)
Organics proportion <sub>wt</sub> %	<1% (binderless), 3% (ready to press) and 16% (CIM feedstock)
Sintering conditions	2000°C – 2100°C under partial argon pressure (100mBar)
Sintered density	4,8 – 5 g.cm <sup>3</sup>