



Product Name : **Aptasinit**

Maximum Service Temperature ° C **1550**

Apparent Density g/cm³ **2,85**

Apparent Porosity % **< 1.0**

Modulus of Rupture 4-Point Test

at 20 °C	N/mm ²	190
at 1400 °C	N/mm ²	170

Modulus of Elasticity GPa **220**

Thermal Expansion at 1000 °C x 10⁻⁶ K⁻¹ **4,5**

Thermal Conductivity	at 20 °C	W m ⁻¹ K ⁻¹	45
	at 200 °C	W m ⁻¹ K ⁻¹	42
	at 1200 °C	W m ⁻¹ K ⁻¹	19
	at 1400 °C	W m ⁻¹ K ⁻¹	17

Specific Heat Coefficient

at 200 °C	J/kg K	0,98
at 1200 °C	J/kg K	1,30
at 1400 °C	J/kg K	1,33

Chemical Composition :

SiC content	%	68
Si ₃ N ₄ content	%	27
Oxide content	%	5

All these data are given for information only and can be under no circumstances considered as specifications. The customer must validate under its own responsibility the behaviour and performances of the product in its own process before use.