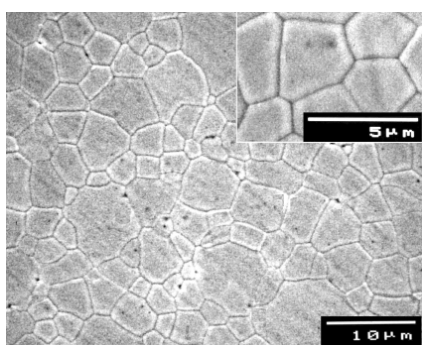




KFSZ

Fully Stabilized Zirconia



Typical microstructure

Main properties

- High temperature resistance
- Allow oxygen ion transporting
- Superior corrosion resistance
- High thermal insulation capacity

Applications

- Active membranes
- Components for the measurement of the oxygen partial pressure

Physical properties

Parameters	Units	Value
Density	g/cm ³	5.7
Hardness	GPa	14
Flexural Strength	MPa	180
Fracture toughness	MPa·√m	4.0
Young Modulus	GPa	260
Thermal conductivity	W/m·k	3
Thermal Expansion Coefficient (20-1000)	10 ⁻⁶ K ⁻¹	10.5
Maximum working temperature	°C	2000

* All properties measured at 20°C unless otherwise stated