

TECHNICAL DATA SHEET

Precision High performance Ceramic

General notes:

- » Partially stabilized zirconia (PSZ)
- » both hard and fracture tough
- » fine grain size: excellent surface finish and able to hold sharp edge
- » relatively low density
- » no open porosity
- » good abrasion and wear resistance
- » superior flexural strength and fracture toughness
- » good thermal properties and good temperature stability
- » extreme corrosion resistance, nearly chemically inert
- » electrically insulative until 400-500°C

Mechanical properties

Flexural modulus	200 GPa
Flexural strength	1200 MPa
Vickers Hardness	12 GPa

Thermal properties

Thermal conductivity

Coef. of lin. therm expansionl:

Max working temperature

2.0 W/m K

10.0 E-6/K

1200°C

Electrical properties

Volume resistivity >10¹² Ohm cm

Other properties

Density 6.00 g/ccm
Open porosity 0.0%
Water absorption 0.0%
Color white

This document contains information based on average values as obtained from the results of laboratory tests and observations made on the material. Ideal-tek SA declines all responsibility from an improper use of the product described in this document.