

Description of Product

Chemical Formula: 6YZrO₂
 Trade Name: RTP 6YZrO₂
 Application: Uniaxial and isostatic pressing

Product Number:

IKH 14104

Typical Powder Characteristics

Grain Size:	< 200 μm
Bulk Density:	1,36 g/cm ³
Tap Density:	1,52 g/cm ³
Green Density:	3,00 g/cm ³
Sintered Density:	6,00 g/cm ³
Shrinkage:	~ 23 %
Organic Content:	24 %

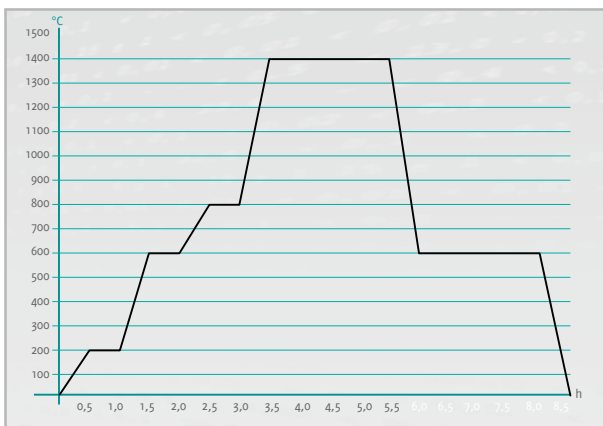
Typical Chemical Composition

Chemical	Typical Value
ZrO ₂	94 %
Y ₂ O ₃	~ 5,5 %
Al ₂ O ₃	~ 0,2 %
Fe ₂ O ₃	~ 0,001 %
TiO ₂	~ 0,001 %
Ca	~ 0,002 %
Na	~ 0,005 %

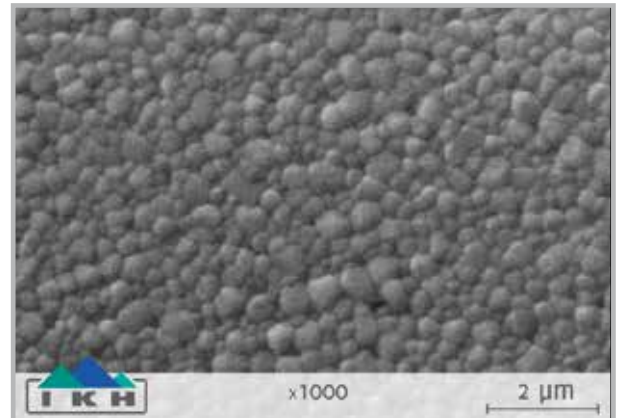
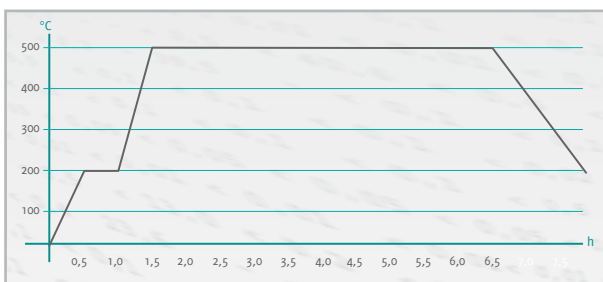
Flexural Strength

Sintering Temperature	1370 °C	1450 °C
Green Density	3,1 g/cm ³	3,1 g/cm ³
Sintered Density	6,0 g/cm ³	6,1 g/cm ³
Flexural Strength	779 MPa	871 MPa

Sintering Curve



Debinding Curve



Packaging

Cardboard boxes with PE-inliners.
 Other packaging on request.

Storage & Handling

Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. Store only in the original container and away from oxidizing agents. Protect from heat and direct sunlight.

Hazard Designation

No hazards when materials are handled professionally.

Documentation

A quality certificate is supplied with every shipment.