

## Property Profile $ZrO_2/Y_2O_3$ - TBC-Coating

- High purity
- Very low x-ray content
- Color: white
- ideal for ceramic layer TBC systems with dense vertical cracked microstructure (DVC)

Product Number:

**IKH 14504**

## Grain Size Distribution

Grain Size	Distribution
37	-125 +45 $\mu\text{m}$

\* other grainsizes on request

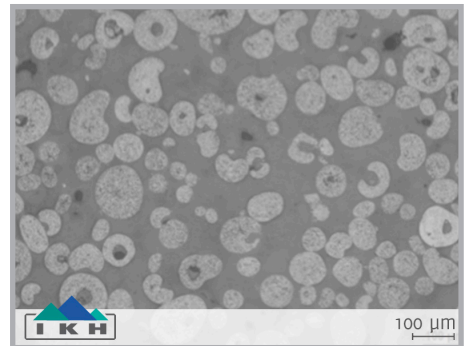
## Coating Properties

Ceramic layer-systems with partially and fully stabilized zirconia which have also dense vertical cracked microstructure (DVC) used for Thermal Barrier Coatings (TBC) of i.e. turbines

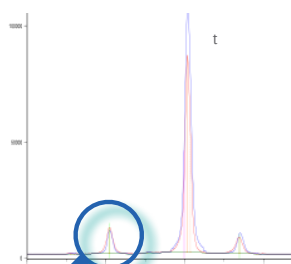
Bulk Density about 1,8g/cm<sub>3</sub>  
 Monoclinic Content < 2%  
 Applicable up to 1.300 °C

## Spray Parameters

Plasmagenerator	F4
Injector / Angel	90° / 6,5 mm
Plasma Gas Ar (SLPM)	35
Plasma Gas H <sub>2</sub> (SLPM)	12
Current (A)	600
Spray Distance (mm)	150

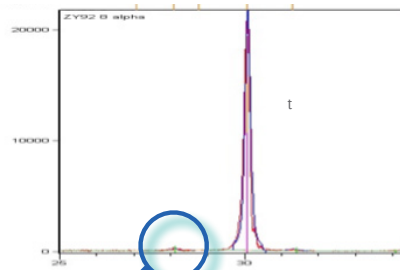


## HOSP Quality



High Monoclinic Content 11-7%

## Melt Consistency



Low Monoclinic Content < 1%

