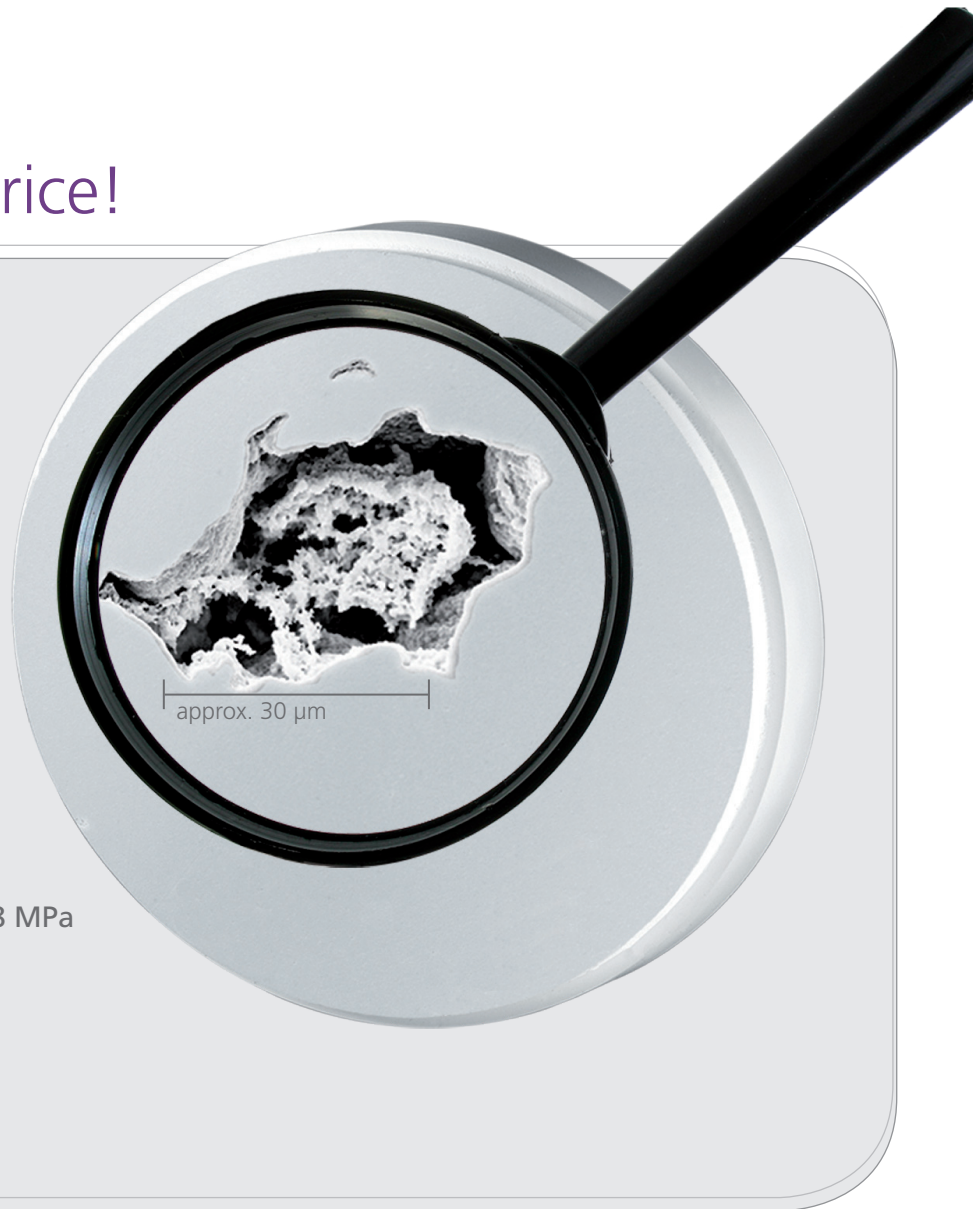


Dazzled by the price?



## Blinded by the price!

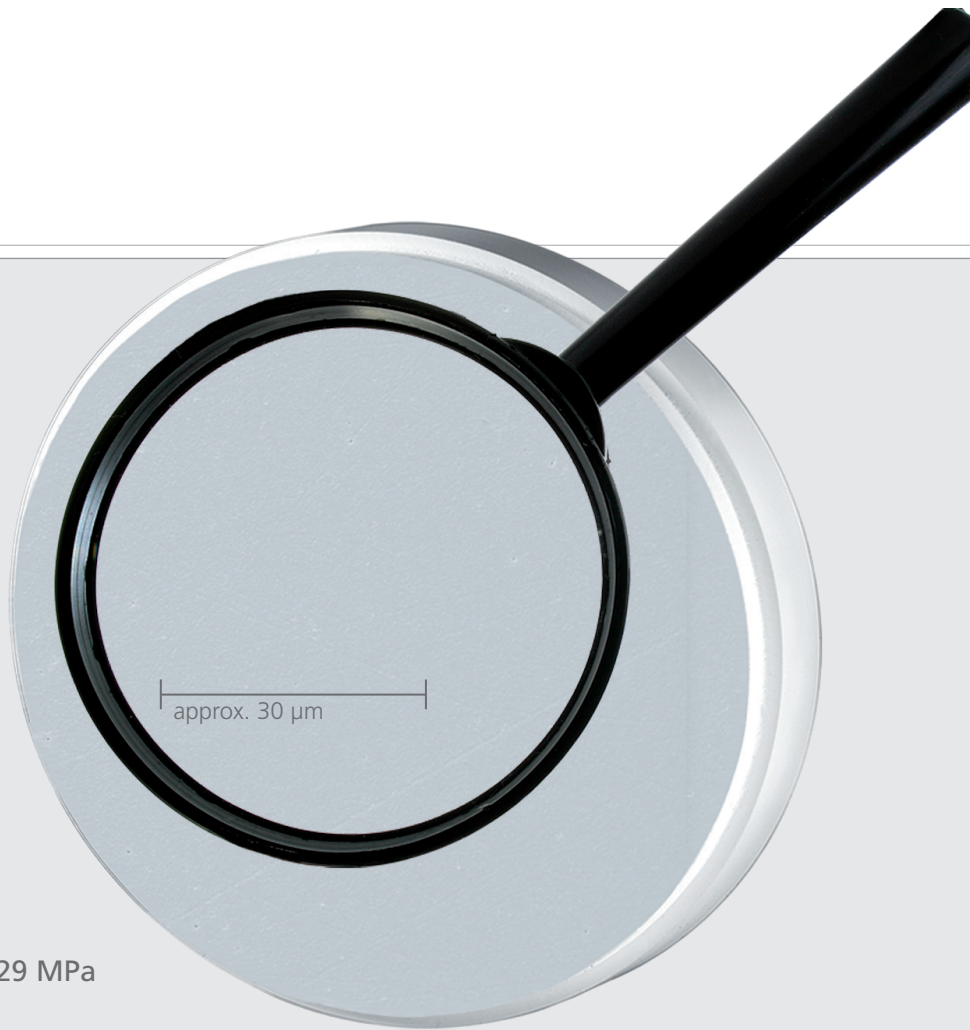


### Cheap zirconium oxides

- Inhomogeneous
- Major defects
- Average bending strength: 538 MPa
- Unsatisfactory fit
- Partly unknown origin
- More prone to faults
- Poor ageing stability

**It is understandable:** The low prices for material blanks in familiar “WIELAND geometry” may seem to be an attractive proposition at first glance. But all who fall to this temptation soon find out that the milling properties of these blanks are not ideally suited to the ZENO® Tec System. One typical result is an unsatisfactory fit caused by too much or too little presintering. In particular, milling blanks of unknown origin usually fail to meet the required standards in terms of minimum bending strength and ageing stability. Or problems occur when hard sintering in the ZENO® Fire furnace, since the zirconium oxide powder used is less sinter active. The result is that the final density and strength are not attained and the manufacturing process is therefore based on an incorrect magnification factor, which similarly results in a poor fit.

## Driven by quality!



### WIELAND ZENO® Zr

- Homogeneous
- Free of defects
- Average bending strength: 1,129 MPa
- Excellent fit\*
- Controlled quality through in-house production
- Milling properties fine-tuned to the ZENO® Tec System

### The ZENO® Tec System from WIELAND Dental + Technik

All components of the ZENO® Tec System – from the scanner through the software and the milling machine to the sinter furnace and the veneering ceramic – are fine-tuned to each other during a thorough development process. Of course, all the machinable materials, such as WIELAND ZENO® Zr with its milling and sintering properties, are an integral part of the whole. This is the only way to obtain a perfect fit for milled workpieces.

**ZENO® Zr – the quality you can only get from a genuine system manufacturer!**



#### Sources:

SEM photos, 1,000 x magnification, Dr. Reinshagen, WIELAND

\* Fischer, Tilmann; 'Comparison of the marginal and internal fit of three different zirconium dioxide systems on the basis of three-unit bridge frameworks', dissertation, Medical Faculty of LMU, Munich, 2006

## WIELAND – Solutions for the future

With over 300 employees, WIELAND is today a leading medium-sized business engaged in the fields of recycling, dental technology, precious metals and electroplating.

By systematically channelling its expertise into innovative development, the company has considerably strengthened its market position at home and abroad.

WIELAND offers sophisticated product lines and services, including those for high-quality dental prosthetics: from the wital implant system and dental alloys to AGC® electroforming technology and the ZENO® Tec System – CAD/CAM technology for the fully automated manufacture of ceramic frameworks – and the corresponding X-type veneering ceramics.

From the root to the crown - WIELAND is your single-source supplier!

**AGC®**  
Electroforming



**SYSTEM**  
**X**  
Alloys



**X-TYPE**  
Ceramics



**wital**  
Implant System



**ZENO®**  
Tec System



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