

# The ideal ceramic

for zircon oxide and titanium

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Manufactured by **DENTAURUM** Germany

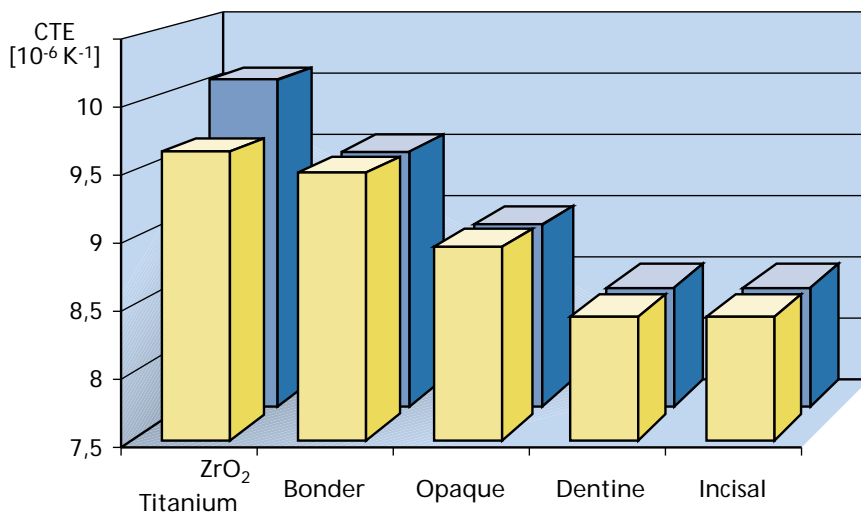
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**B&D DENTAL  
TECHNOLOGIES**

## Triceram®, the perfect ceramic for zircon oxide and titanium

Triceram® synthetic bonding ceramic is set to enjoy even greater success, as it is also ideal for zircon oxide. Many users rely on Triceram® in their routine work and they are extremely interested in this new development.

Various manufacturers supply systems for fabricating zircon oxide frameworks, but the different methods of fabrication (e.g. grinding, milling, sintering etc.) all produce a reinforced zircon oxide framework that is perfectly compatible with Triceram®.



Though zircon oxide and titanium have different properties, they have almost the same coefficient of thermal expansion (CTE), allowing Triceram® to be applied equally well to both zircon oxide and titanium. The CTE of Triceram® ensures that it can be reliably used on both zircon oxide and titanium.

- ZrO<sub>2</sub> / Triceram®
- Titanium / Triceram®

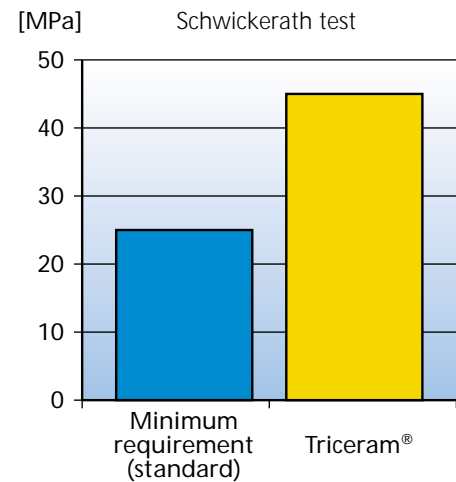
## First-class results on zircon oxide and titanium

Zircon oxide and titanium are tried and tested materials in dentistry. Triceram® produces first-class results on both materials. The option of using Triceram® on two different materials also produces a considerable saving in costs, as only one ceramic system is required.



## 1. Extremely high bond strength

Triceram® bonder produces a bond strength which far exceeds the required standard. This eliminates the problem of inadequate bond strength which has always been associated with titanium ceramics both on zircon oxide and titanium. Various universities in Germany and abroad have carried out extensive scientific tests which verify the excellent bond strength of Triceram®<sup>1</sup>.



## 2. Natural shade effect with remarkable luminescence

As Triceram® is a synthetic bonding ceramic, it has the advantage of producing different shade effects. Due to the chameleon effect of Triceram®, the light flows through the restoration enabling the shades of the restoration and residual dentition to blend.

## 3. High shape and shade stability during firing

Triceram® guarantees high shape and edge stability, even when fired several times. The synthetic components have a positive effect ensuring that the depth of shade remains unaltered after several firings.

## 4. Excellent stability

The excellent stability of Triceram® allows it to be built up quickly, easily and reliably.

## 5. Short, simple firing without slow cooling

The optimum composition of the ceramic allows a simple firing procedure without slow cooling. This reduces fabrication time and costs. Only the firing programme is different when bonding Triceram® to zircon oxide.

<sup>1</sup> • University of Freiburg, Germany, Prof. Dr Kappert H.F.: Bruchfestigkeit und Frakturverhalten von DCS-gefrästen Frontzahnkronen nach Verblendung mit Vitadur D und Triceram®, ZWR, 2001: 134-139, (DC-Zirkon.)  
 • University of Nantes, France, Praud C.: Dissertation: Rapport de la Céramique Triceram® à la réalisation de prothèses céramo-métalliques sur Titane: 1999  
 • University of Munich, Germany, Bader R.-D., Aschl I., Rammelsberg P. Pospiech P.: IADR Abstracts 1021: Improved bond strength of low fusing ceramics to titanium: 2000

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