

# sagemax<sup>®</sup> News



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## New product: NexxZr® T Multi

**NexxZr® T Multi is a dental multilayer zirconium oxide (3Y-TZP cervical, 5Y-TZP incisal) of the latest generation.**

The combination of the very high flexural strength (1170 MPa cervical, 630 MPa incisal) and the smooth gradient of color and translucency makes the difference. This combination offers optimal conditions for the fabrication of monolithic or anatomically reduced single-tooth and bridge restorations. The specially developed multi concept changes the mechanical and light-optical properties of the material in a smooth gradient from cervical to incisal. The high-quality production process provides tension-free sintering and high accuracy of fit even with long-span restorations.



**Type**  
5Y-TZP (incisal)  
3Y-TZP (cervical)



**Flexural strength**  
630 MPa (incisal)  
1170 MPa (cervical)



**Translucency**  
49% (incisal)  
42% (cervical)



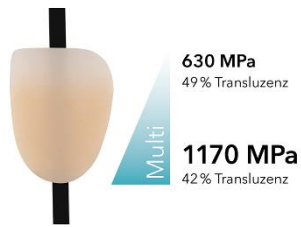
**Indications**  
Single-unit restorations up to multi-unit bridges



**Processing techniques**  
Infiltration technique  
Staining technique  
Cut-back technique  
(CTE<sub>Ceramic</sub> < 10.0 x 10<sup>-6</sup>/K)

## NexxZr® T Multi Highlights

- 1 Smooth color and translucency gradient**  
Multifunctional esthetics



- 2 High strength**  
Wide variety of indications



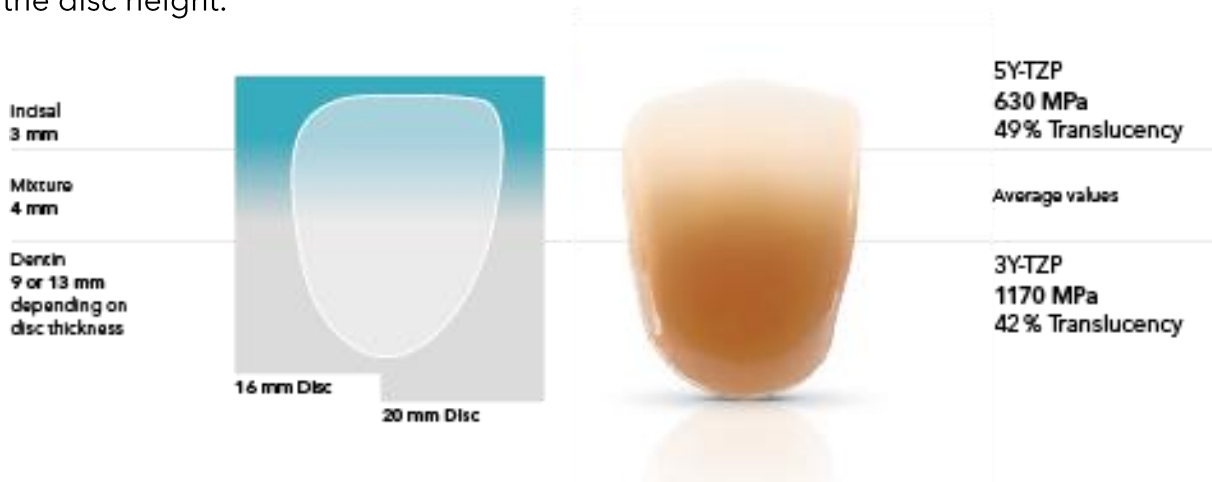
- 3 High-quality production process**  
Tension-free sintering without distortion and high accuracy of fit



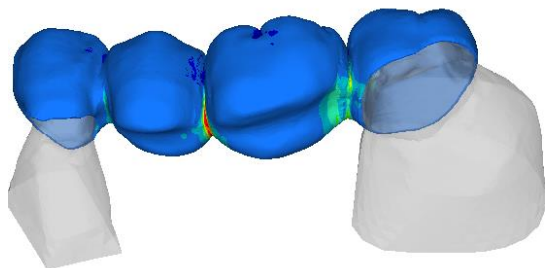
## FAQ NexxZr® T Multi

### How should restorations be positioned in the NexxZr® T Multi disc?

To answer this question, we must first take a look at the structure of the disc in detail. As shown in the following figure, the NexxZr T Multi disc has a uniform incisal and transition area. Furthermore, the incisal area is 3 mm and the transition area 4 mm. The dentin area, on the other hand, varies between 9mm (at 16mm disc height) and 13mm (at 20mm disc height), depending on the disc thickness. This concept, with the fixed incisal and transition area, facilitates positioning and enables uniform results regardless of the disc height.



Considering the positioning the general recommendation is to place the incisal edge of the restoration about 1mm below the upper edge of the disc. This also corresponds to the result of the crown shown. If the incisal portion is too intensive or too large you can reduce it by placing it deeper. In case of bridge restorations, it is also important to make sure that particularly highly stressed areas of the connector are placed in the high-strength dentin area (1170 MPa). The following simulation (4-unit bridge) illustrates that the highest stresses occur at the basal interdental sites (red/green areas) during masticatory loading. For this reason, it is recommended to polish these areas before further processing (e.g. staining, glazing). This way the coarse defects on the zirconia surface are reduced and the strength in these areas is increased.



### **Which system can be used to stain and veneer NexxZr® T Multi?**

In general, all ceramic veneering systems approved for zirconia can be used. In this regard, it is important that the CTE of the veneering ceramic is smaller than the CTE of the zirconia.

In this case, the CTE of the veneering ceramic should be  $< 10.0 \times 10^{-6}/K$ .

For further information visit [sagemax.com](http://sagemax.com) or scan the QR-code.

