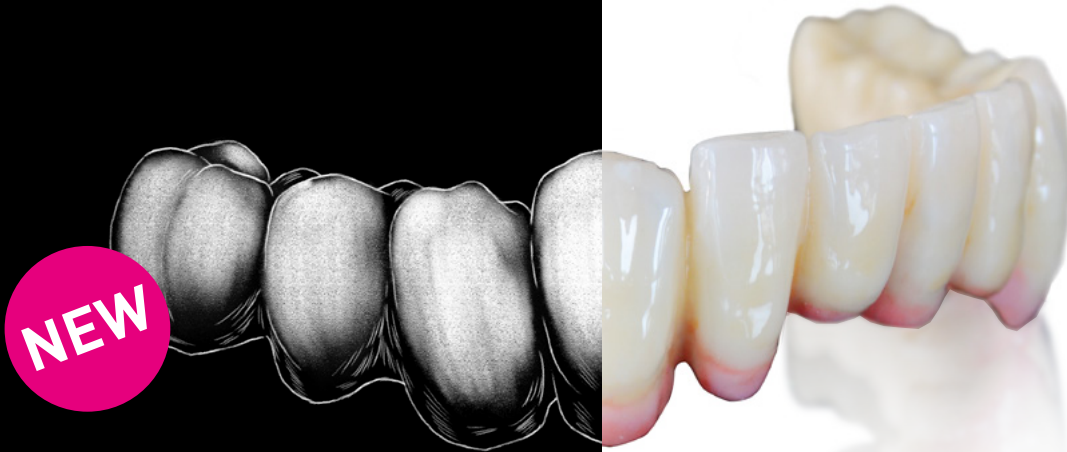


# Expertise from pr**i**tidenta



**NEW**



pr**i**ti® multidisc ZrO<sub>2</sub>

Multi Translucent **series**

# Go ahead and DO it!

priti® multidisc ZrO<sub>2</sub> Multi Translucent series

## IMAGINE MIXING 2 DIFFERENT MATERIAL QUALITIES ...

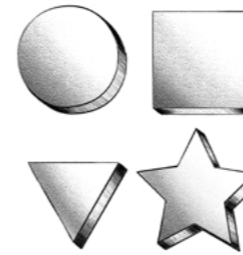
The result is efficient variants of high-strength products made of zirconium dioxide with different levels of translucency. We did just that in our Multi Translucent series, which defines a new generation at pridenta®.

- 03 Profile
- 04 Comparison
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- 08 Shade
- 09 priti® perfect
- 10 Scientific study



# Strong profile

priti® multidisc ZrO<sub>2</sub> Multi Translucent series



## Versatile indications

Highly aesthetic, monolithic, fully anatomical crowns, partial crowns and bridges with up to 14 units, inlays, onlays, veneers and abutments as well as frameworks.



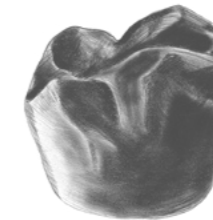
## Stable and natural

Compromises are a thing of the past. Now the end result is what counts. Thanks to a strength of > 800 MPa across the whole blank and based on the study (see p. 10), wide-span work can also be implemented safely.



## Which technique would you like?

You can choose between staining, cutback and veneering techniques.



## High-end aesthetics

Top aesthetics for fully or partially anatomical restorations.



## Creative power

- Combines grace with mechanical resilience
- Ideal for anterior restoration
- Impressive for all requirements



## Satisfied patients

Don't compromise when it comes to the best result for the patient!

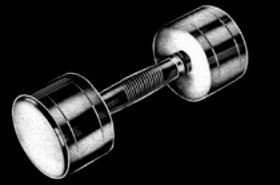
# Best stability

priti® multidisc ZrO<sub>2</sub> Multi Translucent

## Strength

> 800 MPa

priti® multidisc ZrO<sub>2</sub> Multi Translucent particularly stands out thanks to its very high level of stability. This is achieved via the special layering (see graphic below).



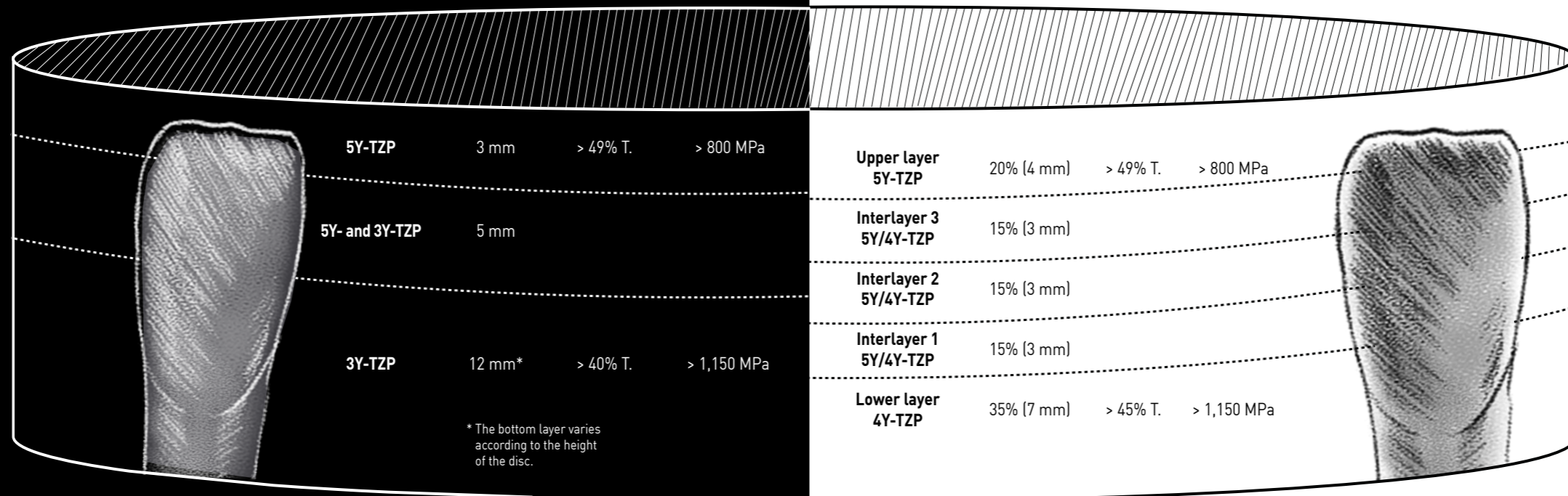
> 1,150 MPa

## Translucency

> 49%



> 40%



[Image representation does not correspond to the exact technical layering.]

# Top aesthetics

priti® multidisc ZrO<sub>2</sub> Multi Translucent PLUS

priti® multidisc ZrO<sub>2</sub> Multi Translucent PLUS offers higher translucency values and finer layering (see graphic below) compared to Multi Translucent. This results in significant improvements in the colour gradient and aesthetic effect.

## Strength

> 800 MPa



> 1,150 MPa

## Translucency

> 49%



> 45%

Disc height 20 mm (100%)

# Product information

priti® multidisc ZrO<sub>2</sub> Multi Translucent (5Y/3Y-TZP)

Suitable for all indications and available in all 16 VITA® classic shades and in 3 "Bleach" shades.

**Heights:** 16 mm, 20 mm and 25 mm

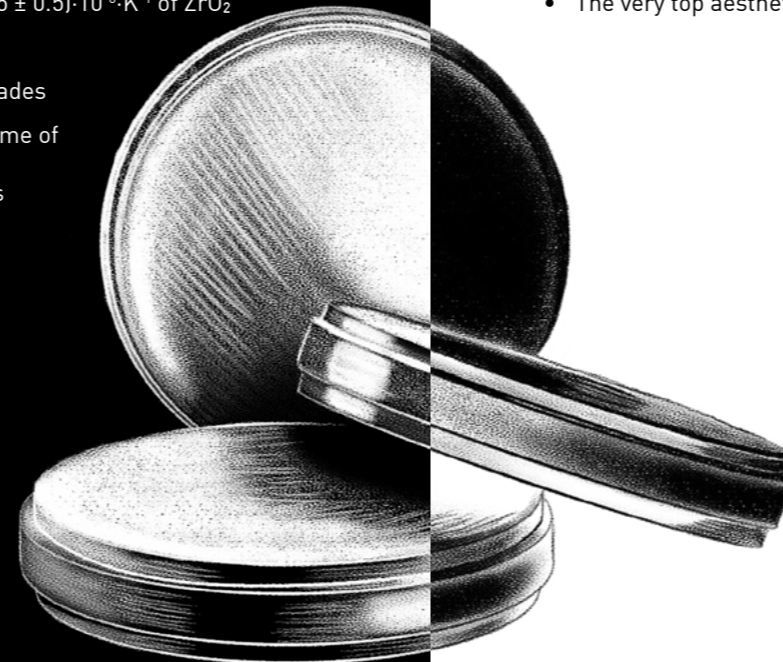
**Blank diameter:** 98.5 mm

## TO SUM UP ...

- Advantages of 3Y (Translucent with very high strength) and 5Y (High Translucent with optimum translucency) combined in one blank
- Good cervical opaque masking properties
- Gradual transition into the dentine
- Increasing translucency in the transition to the incisal area of > 800 MPa in all layers
- Very high level of stability [see scientific study, p. 10]

## MATERIAL

- Zirconium dioxide Type II, Class 5 according to DIN EN ISO 6872
- **Flexural strength: typical mean value  $\geq 1,100$  MPa**
- **Translucency gradient from > 40% to > 49%**
- Highly compressed material ensures precise margins and edges
- Veneering is possible with any ceramic material that is compatible with the CTE  $(10.5 \pm 0.5) \cdot 10^{-6} \cdot K^{-1}$  of ZrO<sub>2</sub>
- Homogeneous colouring
- Consistently reproducible shades
- Rapid sintering with a total time of approx. 4 hours; approved for restorations with up to 3 units



### PRITI® TIP

Positioning guide  
Multi Translucent



Scan me

# Product information

priti® multidisc ZrO<sub>2</sub> Multi Translucent **PLUS** (5Y/4Y-TZP)

Suitable for all indications and available in all 16 VITA® classic shades and available in 3 "Bleach" shades.

**Heights:** 14 mm, 16 mm, 18 mm, 20 mm and 25 mm

**Blank diameter:** 98.5 mm

## TO SUM UP ...

- Advantages of 4Y (Extra Translucent with very high strength) and 5Y (High Translucent with optimum translucency) combined in one blank
- Good cervical opaque masking properties
- Smooth transition into the dentine
- Increasing translucency in the transition to the incisal area of > 800 MPa in all layers
- The very top aesthetics for sophisticated demands

## MATERIAL

- Zirconium dioxide Type II, Class 5 according to DIN EN ISO 6872
- **Flexural strength: typical mean value  $\geq 1,100$  MPa**
- **Translucency gradient from > 45% to > 49%**
- Highly compressed material ensures precise margins and edges
- Veneering is possible with any ceramic material that is compatible with the CTE  $(10.5 \pm 0.5) \cdot 10^{-6} \cdot K^{-1}$  of ZrO<sub>2</sub>
- Harmonious shade and translucency gradient
- Consistently reproducible shades
- Rapid sintering with a total time of approx. 4 hours (up to 3 units)



### PRITI® TIP

Positioning guide  
Multi Translucent PLUS



Scan me



# Shade – reliable and precise

Satisfied patients!

priti® multidisc ZrO<sub>2</sub> Multi Translucent series

## TOP COLOUR BRILLIANCE

Patients expect a restoration that combines top aesthetics, optimal function and reliable longevity.

1. The 16 VITA® classic colours (+3 “Bleach” shades) can be created harmoniously and effortlessly with the priti® multidisc ZrO<sub>2</sub> Multi Translucent series.
2. Due to the sophisticated material strategy and the well-thought-out composition, the materials combine high translucency in the incisal area (> 49%) with simultaneously high mechanical resilience ( $\geq 1,150$  MPa) in the basal/cervical area.
3. The imaginative colour and translucency gradient prevents the occurrence of “grey tinges”, in particular, which are often obtrusively noticeable with other ceramic materials.

## “GREYING” – NO THANK YOU!

- Perfect 16 VITA® classic colours, 3 “Bleach” shades
- Substantial colour and translucency gradient prevents grey tinge
- High-volume pontics are effectively integrated into the colour ambience
- Differentiated material strategy: high translucency in the incisal area, mechanical resilience in the dentine area



# priti® perfect

The perfect complement for a vibrant surface finish

... of teeth and gingiva

## THE PERFECT FINISH

pritudenta has a range of intelligent solutions to assist you in your work, from shade taking right through to placement of the restoration. Milling, sintering and **aesthetically finishing** teeth from priti® multidisc. It's quick and easy, and gives top-quality results!

priti® perfect puts the finishing touch to the existing priti® concept.

**This is polished aesthetic perfection!**

## APPROVED FOR:

- Zirconium dioxide
- Zirconium layering ceramics
- Metal layering ceramics
- Lithium disilicate



Find out more here:



priti® perfect in Action



## priti® perfect STANDS FOR:

Control your results perfectly with brush application and ready-to-use paste materials. The final colors are already evident during application.

With only **20 components** in the priti® perfect set it is possible to achieve perfect results in just 1 firing. Depending on the case, the **2 firing solution** or internal staining can also be selected.

## priti® perfect pink:

**5 structure pastes** and **3 stains** for pink aesthetics.



# Maximum reliability? A scientific study proves it ...

priti®multidisc ZrO<sub>2</sub> Multi Translucent and priti®multidisc ZrO<sub>2</sub> Multi Translucent PLUS

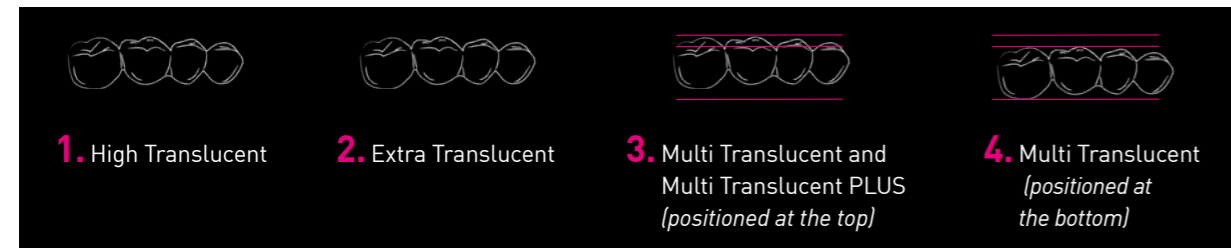
WANT TO  
READ ON?

The detailed study can  
be found here:



## BASIS

4-unit bridges with 2-bridge pontics in the posterior region were tested.  
These bridges were divided into 4 series made of 3 different materials.



## A) CAUSAL SIMULATION

To simulate a 5-year wear period, the bridges were placed in the appropriate test environment.  
They were subjected to central dynamic loading in a water bath under temperature change.

Cyclical loading 50 N

- Extra Translucent\*
- Multi Translucent (top)\*
- Multi Translucent (bottom)\*
- Multi Translucent PLUS (top)
- High Translucent\*\*

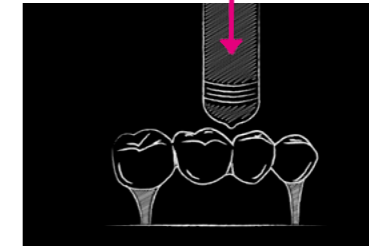
\*The 3 series Extra Translucent, Multi Translucent PLUS (positioned at the top), Multi Translucent (positioned at the top and bottom) withstood the causal simulation and were then subjected to a breakage test (B).

\*\*Some 4-unit bridges made of priti®multidisc ZrO<sub>2</sub> High Translucent did not withstand the causal simulation. This result underlines the indication restriction to max. 3-unit bridges.

## B) BREAKAGE TEST

The bridges that withstood the causal simulation were then subjected to a maximum breakage test.

Increasing force until breakage



Result of the breakage test:

Material	Mean values	Standard deviation
High Translucent	713.5	190.9
Extra Translucent	912.9	105.9
Multi Translucent (top)	1,012.3	196.9
Multi Translucent (bottom)	1,183.7	290.7
Multi Translucent PLUS (top)	1,112	152

## CONCLUSION

There is no significant difference between the breakage values of the bridges made of priti®multidisc ZrO<sub>2</sub> Extra Translucent, priti®multidisc ZrO<sub>2</sub> Multi Translucent PLUS (positioned at the top) and priti®multidisc ZrO<sub>2</sub> Multi Translucent (positioned at the top and bottom).

In addition, the breakage values at 1,000 N confirm the safe use of multi-unit bridges with 2 connecting pontics in the molar region.

**The multi-talent offers everything!  
No positioning guidelines need to be followed.  
Even if a bridge is positioned right at the top, the material is secure!**



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