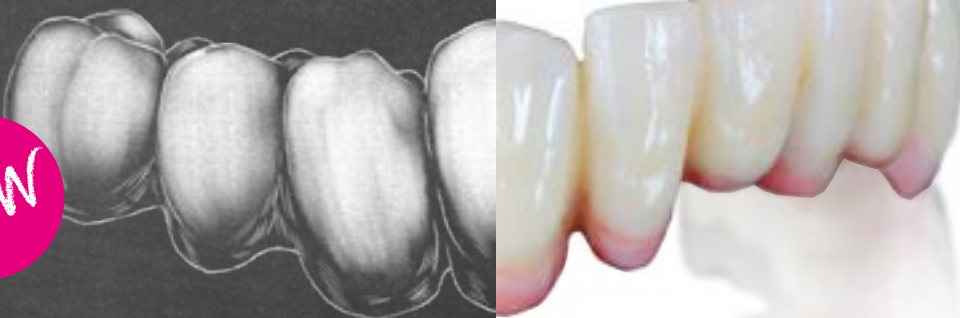


Expertise

from pritidenta

NEW



priti® multidisc ZrO₂

Multi Translucent **series**



Go ahead and DO it!

priti®multidisc ZrO₂ 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®.

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Strong profile

priti®multidisc ZrO₂ Multi Translucent series



Versatile indications

Highly aesthetic monolithic, fully anatomical crowns, partial crowns and bridges with up to 14 units, inlays, onlays, veneers and zirconium dioxide abutments for 2-part abutments or hybrid abutments.



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. The shades look great on the model, and are equally impressive in the mouth!



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 ZrO₂ Multi Translucent

priti® multidisc ZrO₂ Multi Translucent particularly stands out thanks to its very high level of stability. This is achieved via the special layering (see graphic below).

Strength

> 800 MPa



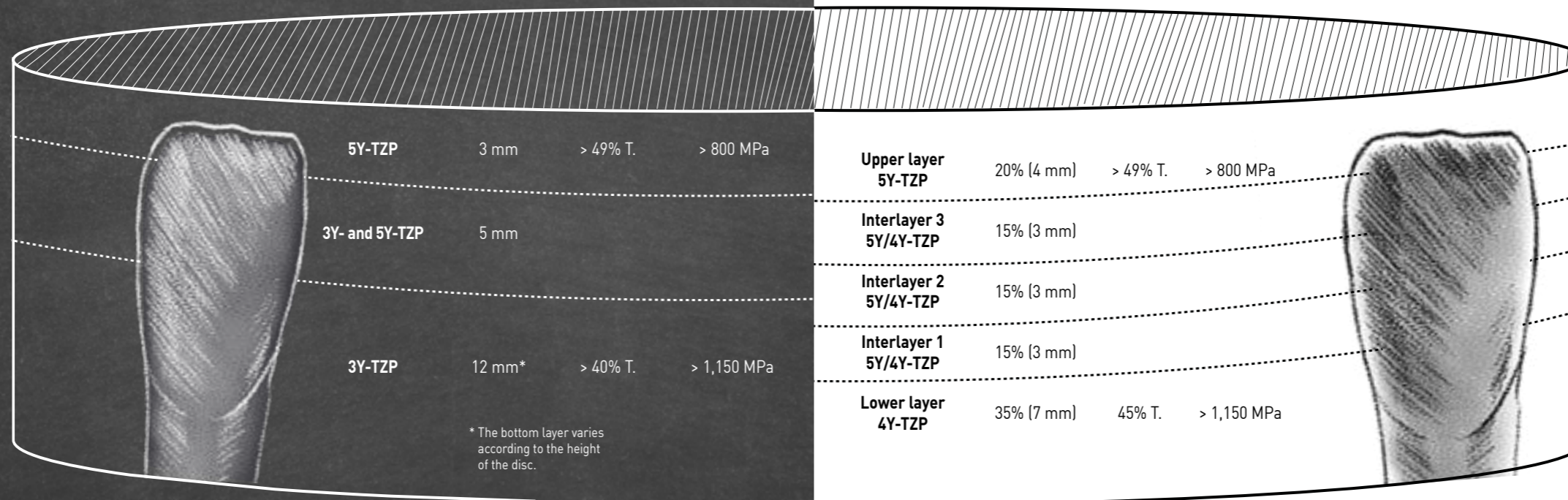
> 1,150 MPa

Translucency

> 49%



< 40%



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

Top aesthetics

priti® multidisc ZrO₂ Multi Translucent PLUS

priti® multidisc 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%

Product information

priti® multidisc ZrO₂ 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 coverage 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 ZrO₂
- † Homogeneous colouring
- † Consistently reproducible shades
- † Rapid sintering with a total time of approx. 4 hours; approved for restorations with up to 3 units



Product information

priti® multidisc ZrO₂ 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: 16 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 coverage 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 ZrO₂
- † Harmonious shade and translucency gradient
- † Consistently reproducible shades
- † Rapid sintering with a total time of approx. 4 hours (up to 3 units)

Shade – foreseeable and precise

Satisfied patients!
priti® multidisc ZrO₂ 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 ZrO₂ 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 (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 material classes.

“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 climate
- ✦ Differentiated material strategy: high translucency in the incisal area, mechanical resilience in the dentine area



priti®perfect – for the perfect surface finish

priti®perfect staining and structural pastes are the perfect way to give a vibrant surface finish to zirconia restorations fabricated with priti® multidisc ZrO₂.

Find out more here:



See priti®perfect in action:



Ordering information

priti® multidisc ZrO₂ Multi Translucent (5Y/3Y-TZP) and Multi Translucent PLUS (5Y/4Y-TZP)

Multi Translucent (5Y/3Y-TZP)

Height	A1	A2	A3	A3,5	A4	B1	B2	B3	B4
16 mm	MZRA1016	MZRA2016	MZRA3016	MZRA3516	MZRA4016	MZRB1016	MZRB2016	MZRB3016	MZRB4016
20 mm	MZRA1020	MZRA2020	MZRA3020	MZRA3520	MZRA4020	MZRB1020	MZRB2020	MZRB3020	MZRB4020
25 mm	MZRA1025	MZRA2025	MZRA3025	MZRA3525	MZRA4025	MZRB1025	MZRB2025	MZRB3025	MZRB4025

Height	C1	C2	C3	C4	D2	D3	D4	OM1	OM2	OM3
16 mm	MZRC1016	MZRC2016	MZRC3016	MZRC4016	MZRD2016	MZRD3016	MZRD4016	MZROM116	MZROM216	MZROM316
20 mm	MZRC1020	MZRC2020	MZRC3020	MZRC4020	MZRD2020	MZRD3020	MZRD4020	MZROM120	MZROM220	MZROM320
25 mm	MZRC1025	MZRC2025	MZRC3025	MZRC4025	MZRD2025	MZRD3025	MZRD4025	MZROM125	MZROM225	MZROM325

Multi Translucent PLUS (5Y/4Y-TZP)

Height	A1	A2	A3	A3,5	A4	B1	B2	B3	B4
16 mm	PZRA1016	PZRA2016	PZRA3016	PZRA3516	PZRA4016	PZRB1016	PZRB2016	PZRB3016	PZRB4016
20 mm	PZRA1020	PZRA2020	PZRA3020	PZRA3520	PZRA4020	PZRB1020	PZRB2020	PZRB3020	PZRB4020
25 mm	PZRA1025	PZRA2025	PZRA3025	PZRA3525	PZRA4025	PZRB1025	PZRB2025	PZRB3025	PZRB4025

Height	C1	C2	C3	C4	D2	D3	D4	OM1	OM2	OM3
16 mm	PZRC1016	PZRC2016	PZRC3016	PZRC4016	ZRD2016	PZRD3016	PZRD4016	PZROM116	PZROM216	PZROM316
20 mm	PZRC1020	PZRC2020	PZRC3020	PZRC4020	PZRD2020	PZRD3020	PZRD4020	PZROM120	PZROM220	PZROM320
25 mm	PZRC1025	PZRC2025	PZRC3025	PZRC4025	PZRD2025	PZRD3025	PZRD4025	PZROM125	PZROM225	PZROM325

Blank diameter: 98.5 mm

Maximum reliability? A scientific study proves it ...

priti®multidisc ZrO₂ Multi Translucent and priti®multidisc ZrO₂ Multi Translucent PLUS

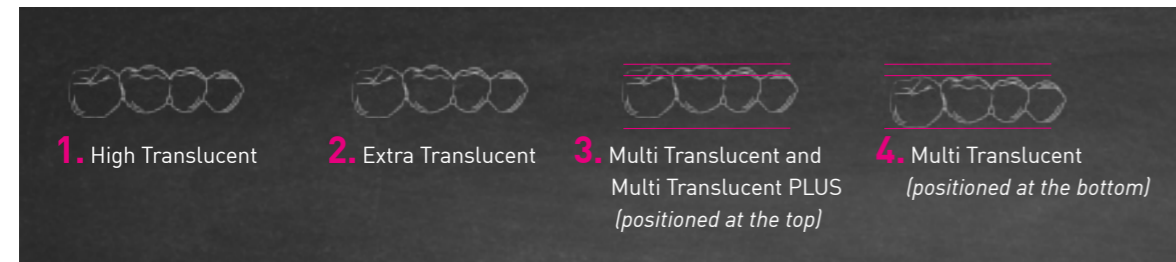
Want to read on?

The detailed study can be found here:



Basis

4-unit bridges with 2-bridge pontics in the posterior region were investigated. These bridges can be 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**

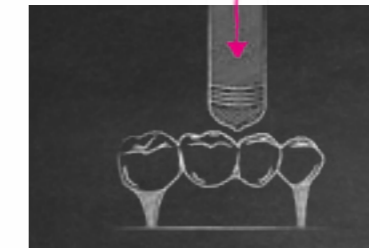
* The 3 series Extra Translucent, Multi Translucent PLUS (positioned at the top), Multi Translucent (positioned at the top and bottom) withstood the causal simulation and were then subjected to a breakage test (B).

** Some 4-unit bridges made of priti®multidisc ZrO₂ 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 ZrO₂ Extra Translucent, priti®multidisc ZrO₂ Multi Translucent PLUS (positioned at the top) and priti®multidisc ZrO₂ 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 pontics attached to each other 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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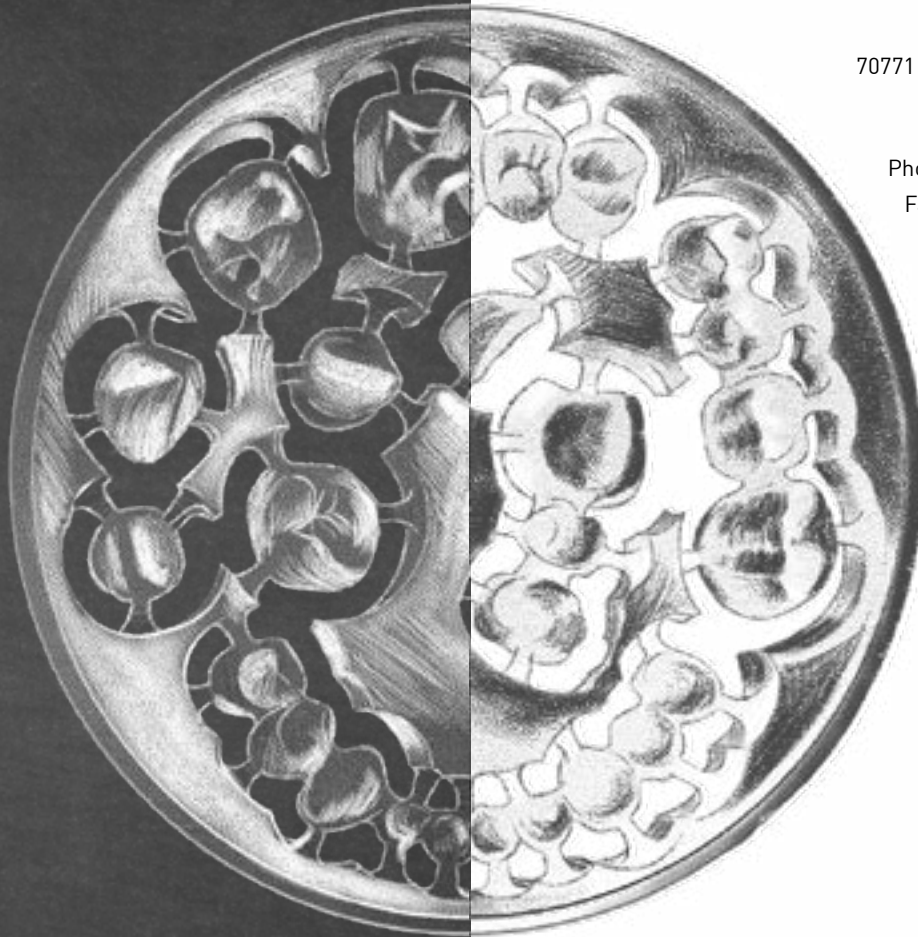
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