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YOUR SPECIALIST FOR **BRILLIANT RESULTS**  
WITH HIGH-PERFORMANCE ZIRCONIUM DIOXIDE



# Welcome to our world!

We didn't invent zirconium dioxide, but we have drastically optimized it!  
prிடிடెнта – always one step ahead of the future.

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CEO prிடிடெнта® GmbH  
Dr. Berthold Reusch



All ceramics date back more than 100 years; an American dentist invented the very first porcelain jacket crown in 1900. The technique became popular in Europe in the 1920s despite being more complicated and problematic to fit.

At the end of the 1980s, the advent of CAD/CAM technology in dentistry laid the foundations for the standard use of all ceramics. Today there is a wide range of available materials available. Zirconium dioxide offers the user the greatest potential.

At prிடிடெнта everything revolves around the material zirconium dioxide – this is our core expertise and our passion. This is what we do and who we are, zirconium dioxide is our speciality. Our internal research and development and in-house production, both of which are in Germany, and of course a great team make sure of this.

This catalog gives you a quick overview of the diverse range of discs and blocks made from prிடிடெнта®multidisc ZrO<sub>2</sub>. This is complemented by a few useful aids that make your routine tasks easier to complete. We've also put together some information about our production process and the prிடிடெнта color chart.

... And now you can experience this creative interplay by reading through our brochure: artistic, creative design combined with digital processes!

Please enjoy your experience with us and thank you for your time and interest,

Dr. Berthold Reusch  
CEO prிடிடெнта® GmbH



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# That's the way to do it!

## priti®multidisc ZrO<sub>2</sub> and priti®multibloc ZrO<sub>2</sub>

### Zirconium dioxide materials

- ✦ Can all be sintered together at 1,450°C.
- ✦ Any programmable furnace is suitable provided it is designed for high temperature sintering (up to 1,600°C).
- ✦ Rapid sintering (up to 3-pontic bridges) is possible.
- ✦ Precise rims and edges due to highly compacted material.
- ✦ Any stain or glaze approved for zirconium dioxide can be used.

### Full and partial veneers

- ✦ All full and partial veneers (including cut-back) can be used without restriction. The only consideration is to use ceramic materials tailored to the CTE of zirconium dioxide.

### Four different levels of translucency

- ✦ High Translucent with **49%** translucency
- ✦ Extra Translucent with **45%** translucency
- ✦ Translucent with **40%** translucency
- ✦ Opaque with **35%** translucency

### priti®multidisc ZrO<sub>2</sub>

- ✦ With or without gradation, has a diameter of 98.5 mm, making it suitable for all open milling machines.
- ✦ Cross-batch color fidelity and homogeneous disc shading.
- ✦ With minimum wall thicknesses of just 0.4 mm anterior and 0.6 mm posterior, you'll always have a safety margin.

### Production

- ✦ Follows a certified process of uniaxial compression with subsequent isostatic repressing.
- ✦ Each individual pre-sintered blank is measured, not just per batch.
- ✦ Specification of the defined sintering shrinkage to four decimal places.


**MADE IN  
GERMANY**

# Let there be light

pridenta translucency levels

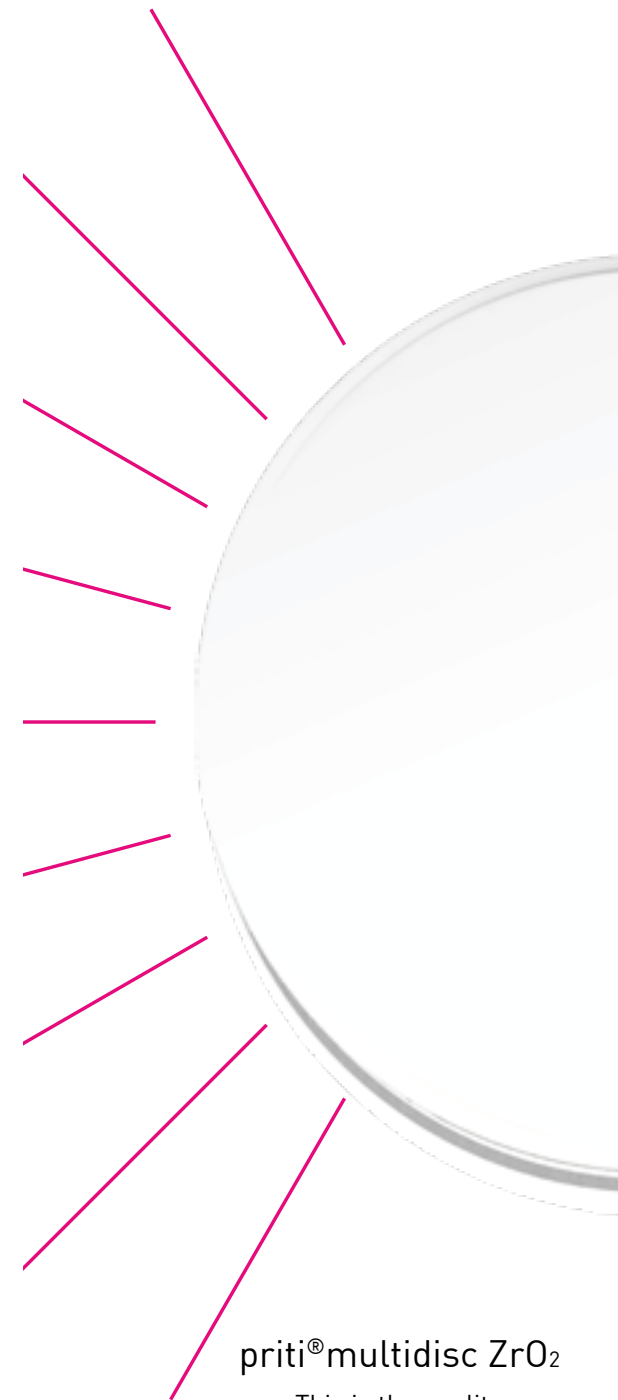
For our circular blanks we have developed four translucency levels with graduated transparency

- ✦ priti®multidisc ZrO<sub>2</sub> High Translucent with a translucency of **49%**
- ✦ priti®multidisc ZrO<sub>2</sub> Extra Translucent with a translucency of **45%**
- ✦ priti®multidisc ZrO<sub>2</sub> Translucent with a translucency of **40%**
- ✦ priti®multidisc ZrO<sub>2</sub> Opaque with a translucency of **35%**

	Opaque	Translucent	Extra Translucent	High Translucent
Multicolor	 priti®multidisc ZrO <sub>2</sub> 16 VITA® colors A1–D4 Opaque	 priti®multidisc ZrO <sub>2</sub> 16 VITA® colors A1–D4 Translucent	 priti®multidisc ZrO <sub>2</sub> 16 VITA® colors A1–D4 Extra Translucent	 priti®multidisc ZrO <sub>2</sub> 16 VITA® colors A1–D4 High Translucent
White	 priti®multidisc ZrO <sub>2</sub> white Opaque	 priti®multidisc ZrO <sub>2</sub> white Translucent	 priti®multidisc ZrO <sub>2</sub> white Extra Translucent	 priti®multidisc ZrO <sub>2</sub> white High Translucent

Added value

Esthetics



priti®multidisc ZrO<sub>2</sub>

This is the quality your restorations deserve.





### Every batch of powder

- + is measured
- + is recorded and traceable

### Every firing is

- + controlled
- + logged and documented

### Every blank

- + is measured
- + has its density checked
- + has its shrinkage measured and calculated
- + is recorded and traceable

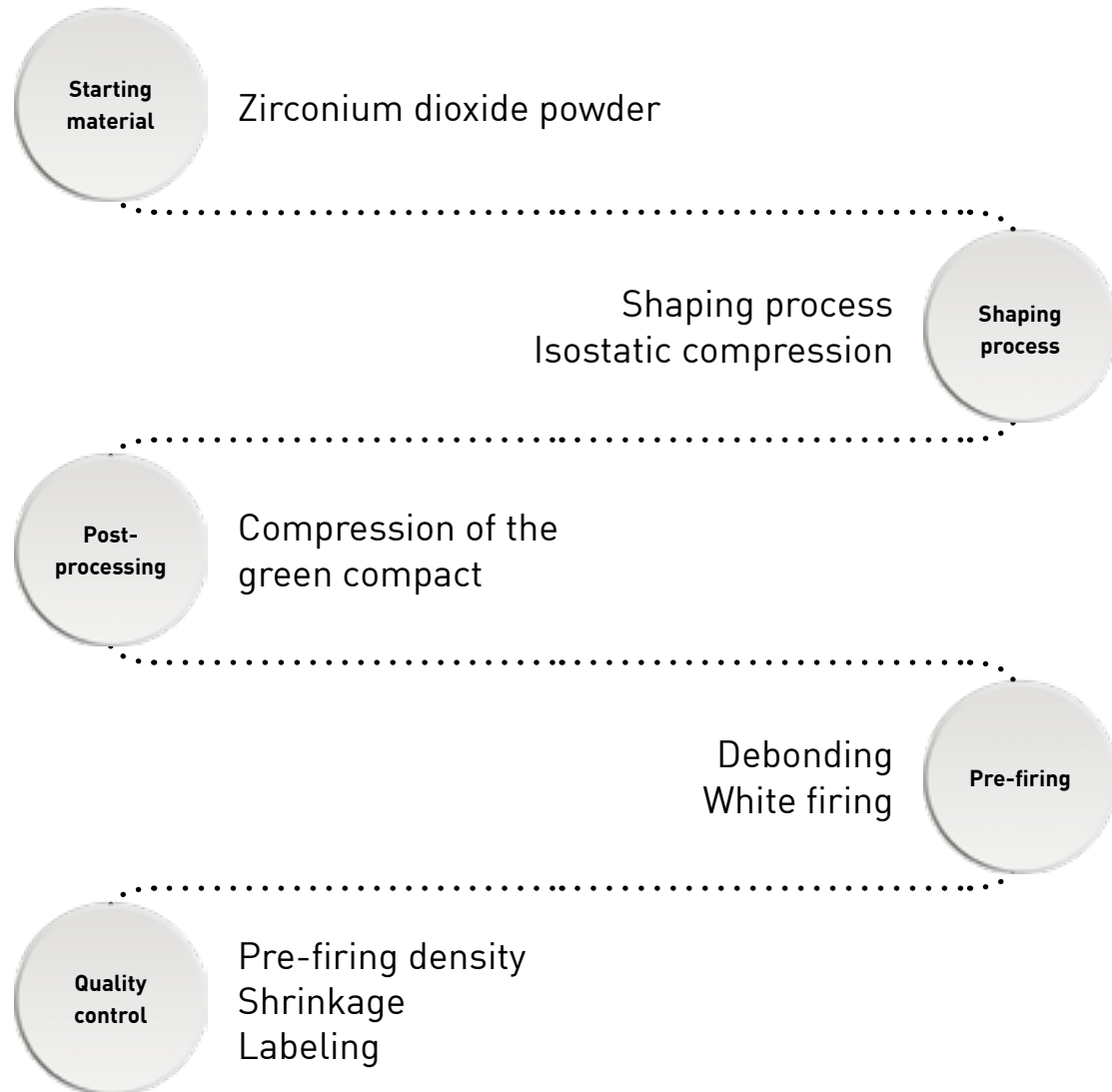


# Production workflow



## How are zirconium dioxide circular blanks produced?

Manufactured at our in-house production site.



# Overview of product portfolio

## priti®multidisc ZrO<sub>2</sub>

### ▸ multicolor

#### High Translucent

- 49% translucency
- Flexural strength > 650 MPa
- Crowns and bridges with up to 3 pontics
- **multicolor (4 light variants, 3 dark variants, 1 bleach shade)**



#### Extra Translucent

- 45% translucency
- Flexural strength > 1,150 MPa
- Broad range of indications
- **multicolor (4 light variants, 3 dark variants, 1 bleach shade)**



#### Translucent

- 40% translucency
- Flexural strength > 1,150 MPa
- Broad range of indications
- **multicolor (4 light variants, 3 dark variants)**



### ▸ monochromatic

#### High Translucent

- 49% translucency
- Flexural strength > 650 MPa
- Crowns and bridges with up to 3 pontics
- **16 VITA® shades and white**



#### Extra Translucent

- 45% translucency
- Flexural strength > 1,150 MPa
- Broad range of indications
- **white**



#### Translucent

- 40% translucency
- Flexural strength > 1,150 MPa
- Broad range of indications
- **16 VITA® shades and white**



#### Opaque

- 35% translucency
- Flexural strength > 1,150 MPa
- Broad range of indications
- **16 VITA® shades and white**



Why does pritidenta offer so many different translucencies, colors and heights?

Every lab or milling center has its own separate requirements for the result, the price, translucency and application area: priti®multidisc ZrO<sub>2</sub> has the right solution for any requirement – it's good to know the option is there when you need it!





# pritti<sup>®</sup> multidisc ZrO<sub>2</sub> multicolor

High Translucent, Extra Translucent and Translucent

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## Highly esthetic

Harmoniously adjusted color gradients that meet the highest esthetic requirements. This means that fully anatomical restorations can be produced without ceramic veneering.



## Quick

Without the otherwise standard and time-consuming work steps such as immersion, painting and drying, the sintering process can begin immediately after milling.



## Simple

Simply by glazing and polishing you get impressive, highly esthetic, and brilliant results.



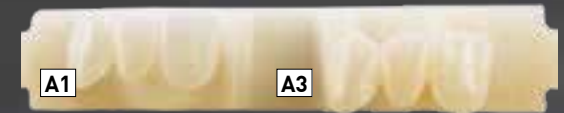
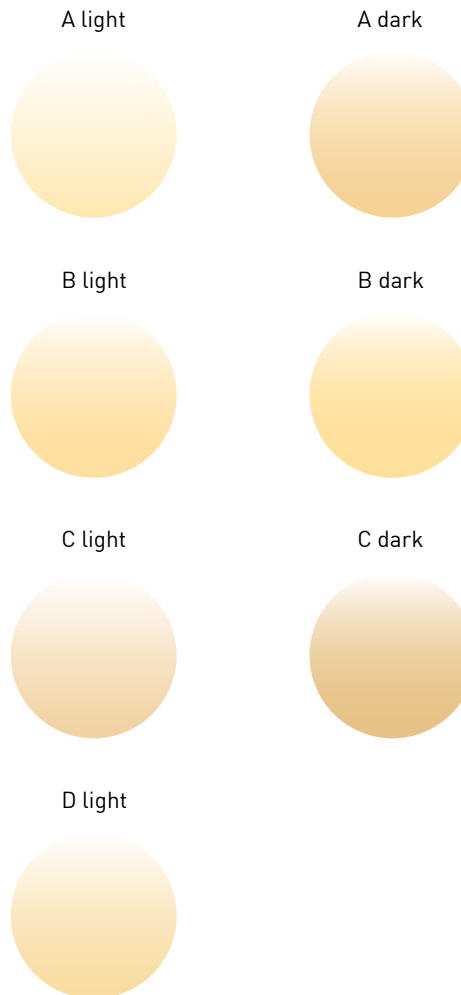


# priti® multidisc ZrO<sub>2</sub> multicolor

## High Translucent, Extra Translucent and Translucent

### Color map

prிடெந்தா® Shade	Position	VITA classical®	VITA System 3D-Master®
<b>A light</b>	Top	A1	2M1, 1M2, 2R1.5
	Middle	A2	2M2
	Bottom	A3	3M2
<b>A dark</b>	Top	A3.5	3R2.5
	Middle		
	Bottom	A4	5M3, 4L2.5
<b>B light</b>	Top	B1	
	Middle		
	Bottom	B2	2L1.5
<b>B dark</b>	Top	B3	3L2.5
	Middle		
	Bottom	B4	3M3
<b>C light</b>	Top	C1	3M1
	Middle		
	Bottom	C2	3L1.5
<b>C dark</b>	Top	C3	
	Middle		4L1.5
	Bottom	C4	5M1, 5M2
<b>D light</b>	Top	D2	
	Middle	D3	4R1.5, 4R2.5
	Bottom	D4	3R1.5, 4M1, 4M2, 4M3
<b>priti® bleach</b>	Top		0M1, 0M2
	Middle		0M3
	Bottom		1M1



priti® multidisc ZrO<sub>2</sub> multicolor Extra Translucent A light 18 mm

Positioning the restoration in an 18 mm A light blank produces a harmonious color gradient with colors A1, A2 or A3.

Each multicolor shade covers a defined color range within its color gradient.

Control the basic shade of your restoration by its position on the round blank.

If the restoration is positioned centrally in a shade A light blank, the basic shade corresponds to A2. Closer to the top it becomes lighter, i.e. an A1, closer to the bottom it becomes darker, i.e. an A3.

The positioning and color mapping can be adjusted to the right blank height depending on restoration height.

This means that with just **7 shades** you can reproduce all the VITA® colors including any intermediate levels.



*priti®multidisc ZrO<sub>2</sub> High Translucent A dark, unpainted or uncoated, only glaze firing.*

## Suitable for

all open milling machines that accept round blanks with a diameter of 98.5 mm.

The positioning and color mapping can be adjusted to the right blank height depending on the restoration height:

Restoration height	Blank height
6 mm – 9 mm	14 mm
9 mm – 12 mm	18 mm
12 mm – 14 mm	20 mm
14 mm – 18 mm	25 mm

The positioning data apply mainly to anteriors. For posteriors we recommend a lower position. This prevents fused cusp areas appearing too white. An additional positive effect is the warm base hue due to the fissure pits.

# priti®multidisc ZrO<sub>2</sub> multicolor

## High Translucent (5Y-TZP)

49% translucency, flexural strength > 650 MPa

### Indications

You can use **priti®multidisc ZrO<sub>2</sub> multicolor High Translucent** to fabricate inlays, onlays, veneers, partial crowns, anatomically reduced and monolithic, fully anatomical crowns and bridges of **up to three pontics** for anterior and posterior areas.

The translucency is comparable to that of lithium disilicate. Thanks to the high transparency and integrated color gradient, the material is particularly recommended for the manufacture of unveneered restorations.

### The esthetics

priti®multidisc ZrO<sub>2</sub> multicolor High Translucent is the material of choice for the most vibrant and highest esthetics of restorations with up to **three pontics**.

### Material

- ✦ Zirconium dioxide Type II, Class 4 (DIN EN ISO 6872)
- ✦ Flexural strength > 650 MPa
- ✦ High translucency of 49%
- ✦ Brilliant esthetics
- ✦ CTE  $10 \cdot 10^{-6} \cdot K^{-1}$
- ✦ Thin wall thicknesses of 0.4 mm for single crowns in the anterior tooth area and 0.6 mm in the posterior tooth area
- ✦ Precise edges and margins due to highly compacted material
- ✦ Veneering possible with any ceramic mapped to the CTE of ZrO<sub>2</sub>
- ✦ Cross-batch color fidelity
- ✦ Homogeneous disc shading
- ✦ Color can be reproduced at any time
- ✦ Biocompatible

height	priti® bleach	A light	A dark	B light	B dark	C light	C dark	D light
<b>14 mm</b>	23103-D985-14PBHT	23103-D985-14ALHT	23103-D985-14ADHT	23103-D985-14BLHT	23103-D985-14BDHT	23103-D985-14CLHT	23103-D985-14CDHT	23103-D985-14DLHT
<b>18 mm</b>	23103-D985-18PBHT	23103-D985-18ALHT	23103-D985-18ADHT	23103-D985-18BLHT	23103-D985-18BDHT	23103-D985-18CLHT	23103-D985-18CDHT	23103-D985-18DLHT
<b>20 mm</b>	23103-D985-20PBHT	23103-D985-20ALHT	23103-D985-20ADHT	23103-D985-20BLHT	23103-D985-20BDHT	23103-D985-20CLHT	23103-D985-20CDHT	23103-D985-20DLHT
<b>25 mm</b>	23103-D985-25PBHT	23103-D985-25ALHT	23103-D985-25ADHT	23103-D985-25BLHT	23103-D985-25BDHT	23103-D985-25CLHT	23103-D985-25CDHT	23103-D985-25DLHT



# priti® multidisc ZrO<sub>2</sub> multicolor

## Extra Translucent (4Y-TZP)

45% translucency, flexural strength > 1,150 MPa

### Indications

You can use **priti® multidisc ZrO<sub>2</sub> Extra Translucent** to fabricate anterior and posterior custom restorations on natural abutment teeth and implants.

Its unique feature is its balance between high translucency and high flexural strength.

This means the material can be recommended without reservation for flexible use across a particularly broad range of indications.

### Versatility

Its unique features is the balance between high translucency, high esthetics and high flexural strength of > 1,150 MPa.

### Material

- ✦ Zirconium dioxide Type II, Class 5 (DIN EN ISO 6872)
- ✦ Flexural strength > 1,150 MPa
- ✦ High translucency of 45%
- ✦ Very high esthetics
- ✦ CTE  $10 \cdot 10^{-6} \cdot K^{-1}$
- ✦ Thin wall thicknesses of 0.4 mm for single crowns in the anterior tooth area and 0.6 mm in the posterior tooth area
- ✦ Precise edges and margins due to highly compacted material
- ✦ Veneering possible with any ceramic mapped to the CTE of ZrO<sub>2</sub>
- ✦ Cross-batch color fidelity
- ✦ Homogeneous disc shading
- ✦ Color can be reproduced at any time
- ✦ Biocompatible



*priti® multicolor Extra Translucent, 7-pontic bridge, from A dark; 5-pontic bridge color A3.5 from A light, unpainted, only glaze firing.*

### Suitable for

all open milling machines that accept round blanks with a diameter of 98.5 mm.

The positioning and color mapping can be adjusted to the right blank height depending on the restoration height:

Restoration height	Blank height
6 mm – 9 mm	14 mm
9 mm – 12 mm	18 mm
12 mm – 14 mm	20 mm
14 mm – 18 mm	25 mm

The positioning data apply mainly to anteriors. For posteriors we recommend a lower position. This prevents fused cusp areas appearing too white. An additional positive effect is the warm base hue due to the fissure pits.

height	priti® bleach	A light	A dark	B light	B dark	C light	C dark	D light
14 mm	EZRPB014	EZRAL014	EZRAD014	EZRBL014	EZRBD014	EZRCL014	EZRCD014	EZRDL014
18 mm	EZRPB018	EZRAL018	EZRAD018	EZRBL018	EZRBD018	EZRCL018	EZRCD018	EZRDL018
20 mm	EZRPB020	EZRAL020	EZRAD020	EZRBL020	EZRBD020	EZRCL020	EZRCD020	EZRDL020
25 mm	EZRPB025	EZRAL025	EZRAD025	EZRBL025	EZRBD025	EZRCL025	EZRCD025	EZRDL025



*priti® multidisc ZrO<sub>2</sub> Translucent A dark, 4-pontic posterior bridge, unpainted, only glaze firing.*

## Suitable for

all open milling machines that accept round blanks with a diameter of 98.5 mm.

The positioning and color mapping can be adjusted to the right blank height depending on the restoration height:

### pridenta® shade

A light  
A dark  
B light  
B dark  
C light  
C dark  
D light

### VITA® shade guide

A1 – A3  
A3.5 – A4  
B1 – B2  
B3 – B4  
C1 – C2  
C3 – C4  
D2 – D4

# priti® multidisc ZrO<sub>2</sub> multicolor

## Translucent (3Y-TZP)

40% translucency, flexural strength > 1,150 MPa

### Indications

You can use **priti® multidisc ZrO<sub>2</sub> multicolor Translucent** to fabricate partial crowns, monolithic, fully anatomical and partially or fully veneered crowns and bridges of **up to 16 pontics** and custom anterior and posterior suprastructures on natural abutment teeth and implants.

The material combines very high flexural strength with good translucency. It is therefore particularly recommended as a scaffold material for esthetic veneering.

### Solidity

Is the flexible choice for solid and original work.

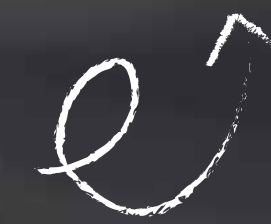
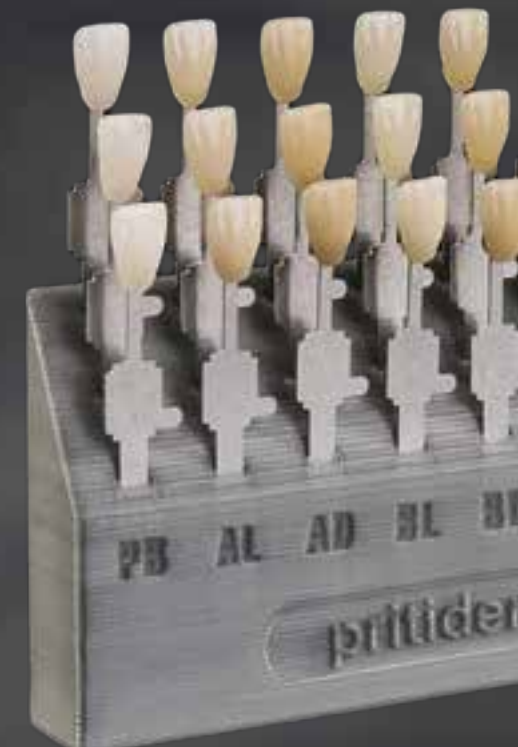
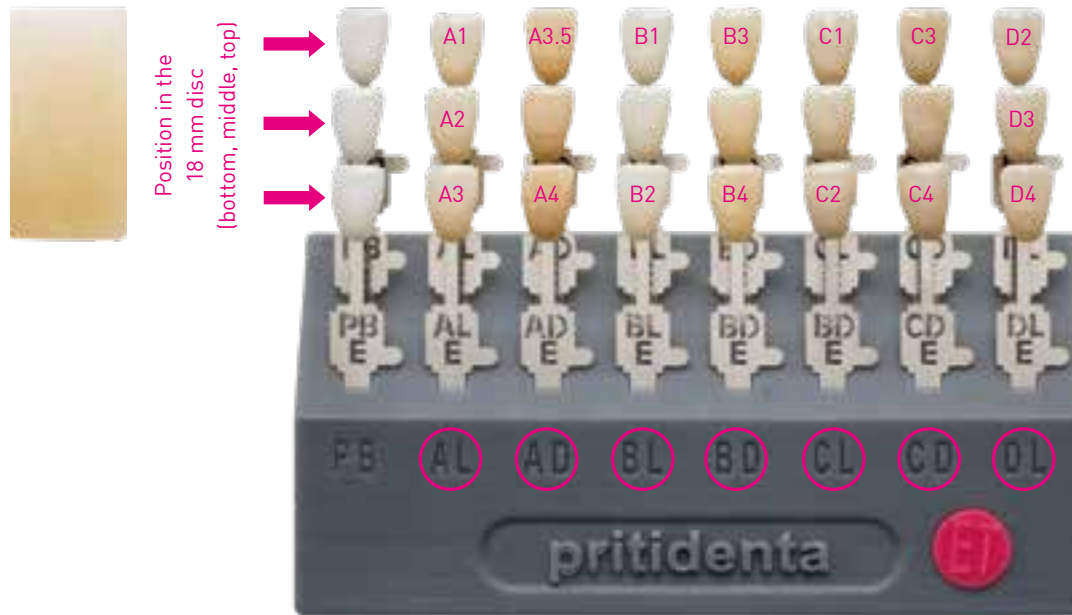
### Material

- ✦ Zirconium dioxide Type II, Class 5 (DIN EN ISO 6872)
- ✦ Flexural strength > 1,150 MPa
- ✦ High translucency of 40%
- ✦ High esthetics
- ✦ CTE  $10 \cdot 10^{-6} \cdot K^{-1}$
- ✦ Thin wall thicknesses of 0.4 mm for single crowns in the anterior tooth area and 0.6 mm in the posterior tooth area
- ✦ Precise edges and margins due to highly compacted material
- ✦ Veneering possible with any ceramic mapped to the CTE of ZrO<sub>2</sub>
- ✦ Cross-batch color fidelity
- ✦ Homogeneous disc shading
- ✦ Color can be reproduced at any time
- ✦ Biocompatible

height	A light	A dark	B light	B dark	C light	C dark	D light
14 mm	13107-D985-14ALT	13107-D985-14ADT	13107-D985-14BLT	13107-D985-14BDT	13107-D985-14CLT	13107-D985-14CDT	13107-D985-14DLT
18 mm	13107-D985-18ALT	13107-D985-18ADT	13107-D985-18BLT	13107-D985-18BDT	13107-D985-18CLT	13107-D985-18CDT	13107-D985-18DLT
20 mm	13107-D985-20ALT	13107-D985-20ADT	13107-D985-20BLT	13107-D985-20BDT	13107-D985-20CLT	13107-D985-20CDT	13107-D985-20DLT
25 mm	13107-D985-25ALT	13107-D985-25ADT	13107-D985-25BLT	13107-D985-25BDT	13107-D985-25CLT	13107-D985-25CDT	13107-D985-25DLT

# The multicolor technology concept

We have multicolor – a natural, harmonious color gradient!



Further information on **priti<sup>®</sup>MPguide** can be found on page 21.

By varying the positions, you can achieve a harmonious color gradient across all 16 VITA<sup>®</sup> shades using just seven different disc colors!

➡ Lower storage costs.





# priti<sup>®</sup> multidisc ZrO<sub>2</sub> monochrome

High Translucent, Extra Translucent, Translucent and Opaque

White and monochrome in 16 VITA<sup>®</sup> shades

As many as necessary, as little as possible. pridenta monochrome color concept.

We produce white and monochrome (single-color) pre-colored blanks. In comparison with manual shading, industrial pre-coloring offers many advantages.



## Effective

Save time and materials when completing routine tasks



## Attractive

Greater translucency than with zirconium dioxide materials processed with dyeing liquids



## Clean

No contamination of sintering furnace/ beads, etc.



## Accurate

Reliably homogeneous shading throughout; no light patches when post-processing



## Reliable

High process reliability due to consistent coloring



## Flexible

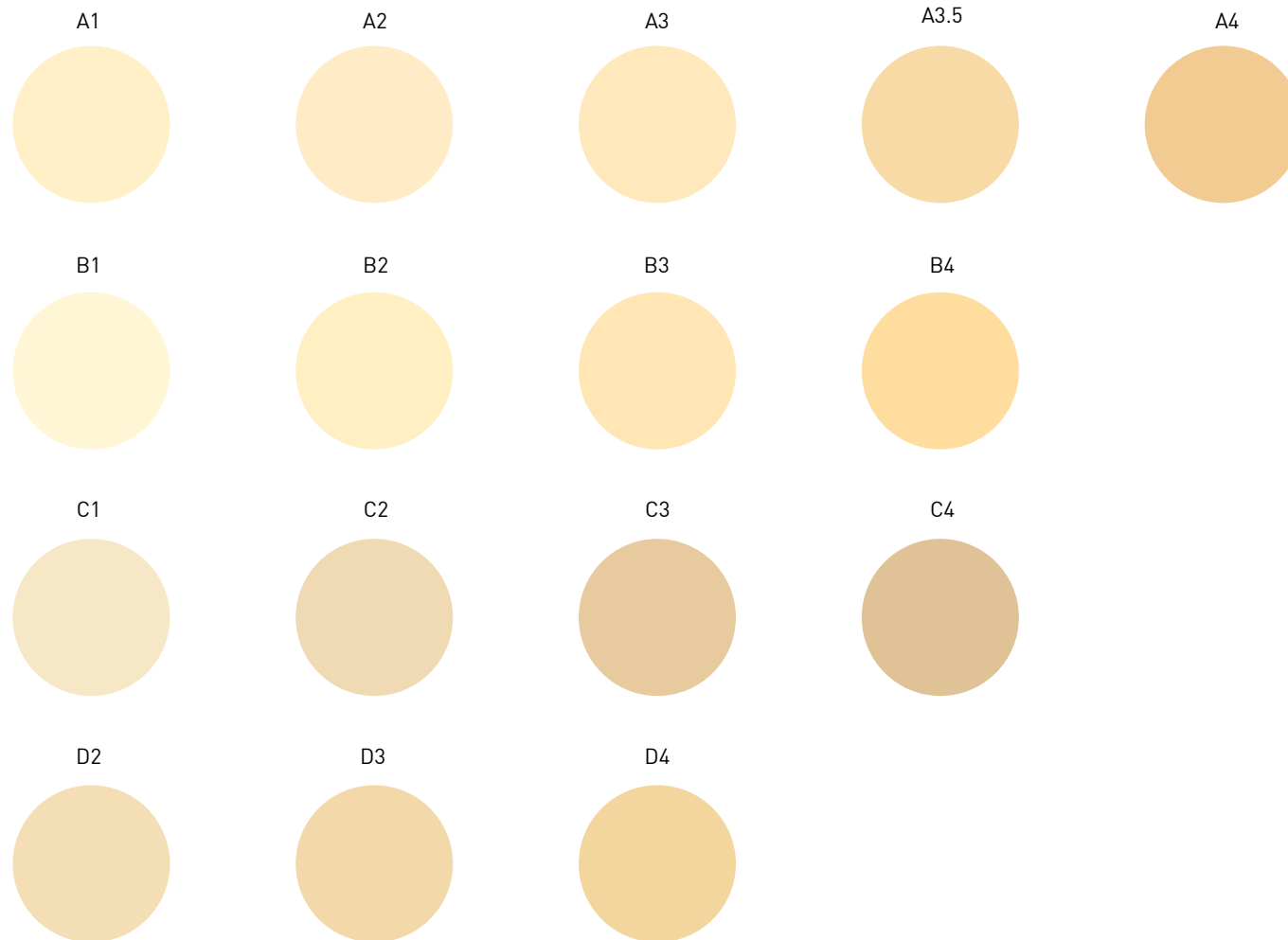
Can be used for veneer ceramics recommended for ZrO<sub>2</sub> ceramics



# priti<sup>®</sup>multidisc ZrO<sub>2</sub> monochrome

High Translucent, Translucent, Extra Translucent (only white) and Opaque  
White and monochrome in 16 VITA<sup>®</sup> shades

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The illustrated shades refer to the priti<sup>®</sup>multidisc ZrO<sub>2</sub> Translucent variant.  
Printed colors may deviate from the actual shade.



# pritti® multidisc ZrO<sub>2</sub> monochrome

## High Translucent (5Y-TZP)

49% translucency, flexural strength > 650 MPa, 16 VITA® shades and white



pritti® multidisc ZrO<sub>2</sub> High Translucent A3 three-pontic anterior bridge reduced

### Indications

You can use **pritti® multidisc ZrO<sub>2</sub> High Translucent** to fabricate inlays, onlays, veneers, partial crowns, anatomically reduced and monolithic, fully anatomical crowns and bridges (**up to three pontics**) for anterior and posterior areas.

The discs are available in white and pre-stained in the **16 VITA® shades**. The translucency is comparable to that of lithium disilicate.

Thanks to the high transparency, the material is particularly recommended for the manufacture of unveneered restorations.

### Material

- ✦ Zirconium dioxide Type II, Class 4 (DIN EN ISO 6872)
- ✦ Flexural strength > 650 MPa
- ✦ High translucency of 49%
- ✦ Brilliant esthetics
- ✦ CTE  $10 \cdot 10^{-6} \cdot K^{-1}$
- ✦ Thin wall thicknesses of 0.4 mm for single crowns in the anterior tooth area and 0.6 mm in the posterior tooth area
- ✦ Precise edges and margins due to highly compacted material
- ✦ Veneering possible with any ceramic mapped to the CTE of ZrO<sub>2</sub>
- ✦ Cross-batch color fidelity
- ✦ Homogeneous disc shading
- ✦ Color can be reproduced at any time
- ✦ Biocompatible

height	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4	white
10 mm	13107-D985-10A1HT	13107-D985-10A2HT	13107-D985-10A3HT	13107-D985-10A35HT	13107-D985-10A4HT	13107-D985-10B1HT	13107-D985-10B2HT	13107-D985-10B3HT	13107-D985-10B4HT	13107-D985-10C1HT	13107-D985-10C2HT	13107-D985-10C3HT	13107-D985-10C4HT	13107-D985-10D2HT	13107-D985-10D3HT	13107-D985-10D4HT	13107-D985-10HT
12 mm	13107-D985-12A1HT	13107-D985-12A2HT	13107-D985-12A3HT	13107-D985-12A35HT	13107-D985-12A4HT	13107-D985-12B1HT	13107-D985-12B2HT	13107-D985-12B3HT	13107-D985-12B4HT	13107-D985-12C1HT	13107-D985-12C2HT	13107-D985-12C3HT	13107-D985-12C4HT	13107-D985-12D2HT	13107-D985-12D3HT	13107-D985-12D4HT	13107-D985-12HT
14 mm	13107-D985-14A1HT	13107-D985-14A2HT	13107-D985-14A3HT	13107-D985-14A35HT	13107-D985-14A4HT	13107-D985-14B1HT	13107-D985-14B2HT	13107-D985-14B3HT	13107-D985-14B4HT	13107-D985-14C1HT	13107-D985-14C2HT	13107-D985-14C3HT	13107-D985-14C4HT	13107-D985-14D2HT	13107-D985-14D3HT	13107-D985-14D4HT	13107-D985-14HT
16 mm	13107-D985-16A1HT	13107-D985-16A2HT	13107-D985-16A3HT	13107-D985-16A35HT	13107-D985-16A4HT	13107-D985-16B1HT	13107-D985-16B2HT	13107-D985-16B3HT	13107-D985-16B4HT	13107-D985-16C1HT	13107-D985-16C2HT	13107-D985-16C3HT	13107-D985-16C4HT	13107-D985-16D2HT	13107-D985-16D3HT	13107-D985-16D4HT	13107-D985-16HT
18 mm	13107-D985-18A1HT	13107-D985-18A2HT	13107-D985-18A3HT	13107-D985-18A35HT	13107-D985-18A4HT	13107-D985-18B1HT	13107-D985-18B2HT	13107-D985-18B3HT	13107-D985-18B4HT	13107-D985-18C1HT	13107-D985-18C2HT	13107-D985-18C3HT	13107-D985-18C4HT	13107-D985-18D2HT	13107-D985-18D3HT	13107-D985-18D4HT	13107-D985-18HT
20 mm	13107-D985-20A1HT	13107-D985-20A2HT	13107-D985-20A3HT	13107-D985-20A35HT	13107-D985-20A4HT	13107-D985-20B1HT	13107-D985-20B2HT	13107-D985-20B3HT	13107-D985-20B4HT	13107-D985-20C1HT	13107-D985-20C2HT	13107-D985-20C3HT	13107-D985-20C4HT	13107-D985-20D2HT	13107-D985-20D3HT	13107-D985-20D4HT	13107-D985-20HT
25 mm	13107-D985-25A1HT	13107-D985-25A2HT	13107-D985-25A3HT	13107-D985-25A35HT	13107-D985-25A4HT	13107-D985-25B1HT	13107-D985-25B2HT	13107-D985-25B3HT	13107-D985-25B4HT	13107-D985-25C1HT	13107-D985-25C2HT	13107-D985-25C3HT	13107-D985-25C4HT	13107-D985-25D2HT	13107-D985-25D3HT	13107-D985-25D4HT	13107-D985-25HT



# priti® multidisc ZrO<sub>2</sub> monochrome

## Extra Translucent (4Y-TZP)

45% translucency, flexural strength > 1,150 MPa, only in white

### Indications

You can use **priti® multidisc ZrO<sub>2</sub> Extra Translucent** to fabricate inlays, onlays, veneers, partial crowns, monolithic, fully anatomical and partially or fully veneered crowns and bridges (**up to 16 pontics**), and custom anterior and posterior suprastructures on natural abutment teeth and implants.

Its unique feature is its balance between high translucency and high flexural strength. This means the material can be recommended without reservation for flexible use across a particularly broad range of indications.

### Suitable for

all open milling machines that accept round blanks with a diameter of 98.5 mm.

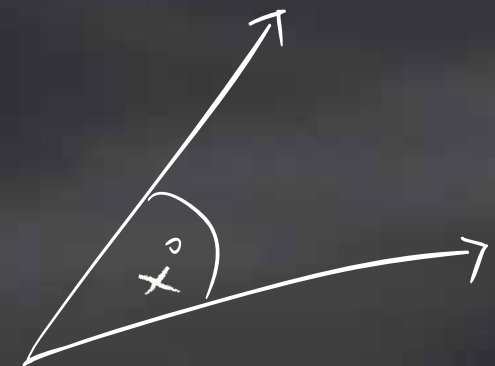
### Material

- ✦ Zirconium dioxide Type II, Class 5 (DIN EN ISO 6872)
- ✦ Flexural strength > 1,150 MPa
- ✦ High translucency of 45%
- ✦ Very high esthetics
- ✦ CTE  $10 \cdot 10^{-6} \cdot K^{-1}$
- ✦ Thin wall thicknesses of 0.4 mm for single crowns in the anterior tooth area and 0.6 mm in the posterior tooth area
- ✦ Precise edges and margins due to highly compacted material
- ✦ Veneering possible with any ceramic mapped to the CTE of ZrO<sub>2</sub>
- ✦ Biocompatible



*priti® multidisc ZrO<sub>2</sub> Extra Translucent in white, 14-pontic bridge*

height	white
10 mm	EZRW0010
12 mm	EZRW0012
14 mm	EZRW0014
16 mm	EZRW0016
18 mm	EZRW0018
20 mm	EZRW0020
25 mm	EZRW0025





priti®multidisc ZrO<sub>2</sub> Translucent A3 10-pontic bridge

## Suitable for

all open milling machines that accept round blanks with a diameter of 98.5 mm.

# priti®multidisc ZrO<sub>2</sub> monochrome

## Translucent (3Y-TZP)

40 % translucency, flexural strength > 1,150 MPa, 16 VITA® shades and white

### Indications

You can use **priti®multidisc ZrO<sub>2</sub> Translucent** to fabricate partial crowns, monolithic, fully anatomical and partially or fully veneered crowns and bridges (**up to 16 pontics**) and custom anterior and posterior suprastructures on natural abutment teeth and implants.

The discs are available in white and pre-stained in the **16 VITA® shades**. The material combines very high flexural strength with good translucency. It is therefore particularly recommended as a scaffold material for esthetic veneering.

### Material

- ✦ Zirconium dioxide Type II, Class 5 (DIN EN ISO 6872)
- ✦ Flexural strength > 1,150 MPa
- ✦ High translucency of 40%
- ✦ High esthetics
- ✦ CTE  $10 \cdot 10^{-6} \cdot K^{-1}$
- ✦ Thin wall thicknesses of 0.4 mm for single crowns in the anterior tooth area and 0.6 mm in the posterior tooth area
- ✦ Precise edges and margins due to highly compacted material
- ✦ Veneering possible with any ceramic mapped to the CTE of ZrO<sub>2</sub>
- ✦ Cross-batch color fidelity
- ✦ Homogeneous disc shading
- ✦ Color can be reproduced at any time
- ✦ Biocompatible

height	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4	white
10 mm	13107-D985-10A1T	13107-D985-10A2T	13107-D985-10A3T	13107-D985-10A35T	13107-D985-10A4T	13107-D985-10B1T	13107-D985-10B2T	13107-D985-10B3T	13107-D985-10B4T	13107-D985-10C1T	13107-D985-10C2HT	13107-D985-10C3HT	13107-D985-10C4HT	13107-D985-10D2T	13107-D985-10D3T	13107-D985-10D4T	13107-D985-10T
12 mm	13107-D985-12A1T	13107-D985-12A2T	13107-D985-12A3T	13107-D985-12A35T	13107-D985-12A4T	13107-D985-12B1T	13107-D985-12B2T	13107-D985-12B3T	13107-D985-12B4T	13107-D985-12C1T	13107-D985-12C2T	13107-D985-12C3T	13107-D985-12C4T	13107-D985-12D2T	13107-D985-12D3T	13107-D985-12D4T	13107-D985-12T
14 mm	13107-D985-14A1T	13107-D985-14A2T	13107-D985-14A3T	13107-D985-14A35T	13107-D985-14A4T	13107-D985-14B1T	13107-D985-14B2T	13107-D985-14B3T	13107-D985-14B4T	13107-D985-14C1T	13107-D985-14C2T	13107-D985-14C3T	13107-D985-14C4T	13107-D985-14D2T	13107-D985-14D3T	13107-D985-14D4T	13107-D985-14T
16 mm	13107-D985-16A1T	13107-D985-16A2T	13107-D985-16A3T	13107-D985-16A35T	13107-D985-16A4T	13107-D985-16B1T	13107-D985-16B2T	13107-D985-16B3T	13107-D985-16B4T	13107-D985-16C1T	13107-D985-16C2T	13107-D985-16C3T	13107-D985-16C4T	13107-D985-16D2T	13107-D985-16D3T	13107-D985-16D4T	13107-D985-16T
18 mm	13107-D985-18A1T	13107-D985-18A2T	13107-D985-18A3T	13107-D985-18A35T	13107-D985-18A4T	13107-D985-18B1T	13107-D985-18B2T	13107-D985-18B3T	13107-D985-18B4T	13107-D985-18C1T	13107-D985-18C2T	13107-D985-18C3T	13107-D985-18C4T	13107-D985-18D2T	13107-D985-18D3T	13107-D985-18D4T	13107-D985-18T
20 mm	13107-D985-20A1T	13107-D985-20A2T	13107-D985-20A3T	13107-D985-20A35T	13107-D985-20A4T	13107-D985-20B1T	13107-D985-20B2T	13107-D985-20B3T	13107-D985-20B4T	13107-D985-20C1T	13107-D985-20C2T	13107-D985-20C3T	13107-D985-20C4T	13107-D985-20D2T	13107-D985-20D3T	13107-D985-20D4T	13107-D985-20T
25 mm	13107-D985-25A1T	13107-D985-25A2T	13107-D985-25A3T	13107-D985-25A35T	13107-D985-25A4T	13107-D985-25B1T	13107-D985-25B2T	13107-D985-25B3T	13107-D985-25B4T	13107-D985-25C1T	13107-D985-25C2T	13107-D985-25C3T	13107-D985-25C4T	13107-D985-25D2T	13107-D985-25D3T	13107-D985-25D4T	13107-D985-25T

# priti® multidisc ZrO<sub>2</sub> monochrome

## Opaque (3Y-TZP)

35% translucency, flexural strength > 1,150 MPa, 16 VITA® shades and white

### Indications

You can use **priti® multidisc ZrO<sub>2</sub> Opaque** to fabricate partially or fully veneered crowns and bridges (**up to 16 pontics**), and custom anterior and posterior suprastructures on natural abutment teeth and implants.

Its low translucency means it has a strong masking effect. The material is therefore particularly recommended for veneer work on discolored stumps and metal constructions.

### Material

- ✦ Zirconium dioxide Type II, Class 5 (DIN EN ISO 6872)
- ✦ Flexural strength > 1,150 MPa
- ✦ High translucency of 35%
- ✦ CTE  $10 \cdot 10^{-6} \cdot K^{-1}$
- ✦ Thin wall thicknesses of 0.4 mm for single crowns in the anterior tooth area and 0.6 mm in the posterior tooth area
- ✦ Precise edges and margins due to highly compacted material
- ✦ Veneering possible with any ceramic mapped to the CTE of ZrO<sub>2</sub>
- ✦ Cross-batch color fidelity
- ✦ Homogeneous disc shading
- ✦ Color can be reproduced at any time
- ✦ Biocompatible



priti® multidisc ZrO<sub>2</sub> Opaque A3 4-pontic bridge reduced

### Suitable for

all open milling machines that accept round blanks with a diameter of 98.5 mm.

height	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4	white	
10 mm	13107-D985-10A1	13107-D985-10A2	13107-D985-10A3	13107-D985-10A35	13107-D985-10A4	13107-D985-10B1	13107-D985-10B2	13107-D985-10B3	13107-D985-10B4	13107-D985-10C1	13107-D985-10C2	13107-D985-10C3	13107-D985-10C4	13107-D985-10D2	13107-D985-10D3	13107-D985-10D4	13107-D985-10	■
12 mm	13107-D985-12A1	13107-D985-12A2	13107-D985-12A3	13107-D985-12A35	13107-D985-12A4	13107-D985-12B1	13107-D985-12B2	13107-D985-12B3	13107-D985-12B4	13107-D985-12C1	13107-D985-12C2	13107-D985-12C3	13107-D985-12C4	13107-D985-12D2	13107-D985-12D3	13107-D985-12D4	13107-D985-12	■
14 mm	13107-D985-14A1	13107-D985-14A2	13107-D985-14A3	13107-D985-14A35	13107-D985-14A4	13107-D985-14B1	13107-D985-14B2	13107-D985-14B3	13107-D985-14B4	13107-D985-14C1	13107-D985-14C2	13107-D985-14C3	13107-D985-14C4	13107-D985-14D2	13107-D985-14D3	13107-D985-14D4	13107-D985-14	■
16 mm	13107-D985-16A1	13107-D985-16A2	13107-D985-16A3	13107-D985-16A35	13107-D985-16A4	13107-D985-16B1	13107-D985-16B2	13107-D985-16B3	13107-D985-16B4	13107-D985-16C1	13107-D985-16C2	13107-D985-16C3	13107-D985-16C4	13107-D985-16D2	13107-D985-16D3	13107-D985-16D4	13107-D985-16	■
18 mm	13107-D985-18A1	13107-D985-18A2	13107-D985-18A3	13107-D985-18A35	13107-D985-18A4	13107-D985-18B1	13107-D985-18B2	13107-D985-18B3	13107-D985-18B4	13107-D985-18C1	13107-D985-18C2	13107-D985-18C3	13107-D985-18C4	13107-D985-18D2	13107-D985-18D3	13107-D985-18D4	13107-D985-18	■
20 mm	13107-D985-20A1	13107-D985-20A2	13107-D985-20A3	13107-D985-20A35	13107-D985-20A4	13107-D985-20B1	13107-D985-20B2	13107-D985-20B3	13107-D985-20B4	13107-D985-20C1	13107-D985-20C2	13107-D985-20C3	13107-D985-20C4	13107-D985-20D2	13107-D985-20D3	13107-D985-20D4	13107-D985-20	■
25 mm	13107-D985-25A1	13107-D985-25A2	13107-D985-25A3	13107-D985-25A35	13107-D985-25A4	13107-D985-25B1	13107-D985-25B2	13107-D985-25B3	13107-D985-25B4	13107-D985-25C1	13107-D985-25C2	13107-D985-25C3	13107-D985-25C4	13107-D985-25D2	13107-D985-25D3	13107-D985-25D4	13107-D985-25	■

■ Items in stock

All other items available on request (from 50 pcs), delivery time approx. 6 weeks

# priti<sup>®</sup>multibloc ZrO<sub>2</sub> multicolor

## High Translucent

49% translucency, flexural strength > 650 MPa



priti<sup>®</sup>multibloc ZrO<sub>2</sub> multicolor High Translucent



### For brilliant, vibrant esthetics

priti<sup>®</sup>multibloc ZrO<sub>2</sub> multicolor High Translucent is the material of choice for esthetic, fully anatomical, monolithic restorations with up to **three pontics**.

- ✦ For all open systems with block holding devices, e.g. imes-icore 140i, vhf S1 and K5, Zirkozahn
- ✦ Sirona Chairside: CEREC MC X, CEREC MC XL,
- ✦ Sirona Labside: CEREC MC X5

### Material

- ✦ Zirconium dioxide Type II, Class 4 (DIN EN ISO 6872)
- ✦ Flexural strength > 650 MPa
- ✦ Very high translucency of 49%, comparable with lithium disilicate
- ✦ Brilliant esthetics
- ✦ CTE  $10 \cdot 10^{-6} \cdot K^{-1}$
- ✦ Thin wall thicknesses of 0.4 mm for single crowns in the anterior tooth area and 0.6 mm in the posterior tooth area
- ✦ Precise edges and margins due to highly compacted material
- ✦ Veneering possible with any ceramic mapped to the CTE of ZrO<sub>2</sub>
- ✦ Cross-batch color fidelity
- ✦ Homogeneous block shading
- ✦ Color can be reproduced at any time
- ✦ Biocompatible

### Indications

You can use priti<sup>®</sup>multibloc ZrO<sub>2</sub> multicolor High Translucent to fabricate inlays, onlays, veneers, partial crowns, anatomically reduced and monolithic, fully anatomical crowns and bridges (**up to three pontics**) for anterior and posterior areas.

The translucency is comparable to that of lithium disilicate. Thanks to the high transparency and integrated color gradient, the material is particularly recommended for the efficient manufacture of unveneered restorations.

The following shades can be achieved depending on where the restoration is positioned in the block (shades apply to restoration heights < 10 mm):

Shade	Position	Vita classical <sup>®</sup>	VITA System 3D-Master <sup>®</sup>
<b>A light</b>	Top	A1	2M1, 1M2, 2R1.5
	Middle	A2	2M2
	Bottom	A3	3M2
<b>A dark</b>	Top	A3.5	3R2.5
	Middle		
	Bottom	A4	5M3, 4L2.5
<b>B light</b>	Top	B1	
	Middle		
	Bottom	B2	2L1.5

Dimensions	Quantity	A light	A dark	B light
L 40 mm x W 19 mm x H 15.5 mm	3 pieces	23103-D40-155ALHT	23103-D40-155ADHT	23103-D40-155BLHT

# priti®MPguide ZrO<sub>2</sub>

## High Translucent and Extra Translucent

### Clear, high-quality, user-friendly

**priti®MPguide High Translucent** is your key for selecting the right pritidenta color and mapping it to the **VITA® shades**.

Select the shade with priti®MPguide High Translucent as you normally would: Simply match the shade sample sticks to the tooth.

Each sample stick states the shade and the position required in the disc (top/middle/bottom).

The sample teeth are manufactured from original priti® ZrO<sub>2</sub> multicolor High Translucent and Extra Translucent.

This makes it possible to precisely define the tooth shades of pritidenta's zirconium dioxide.

### Color map

pritidenta® Shade	Position	VITA classical®	VITA System 3D-Master®
<b>A light</b>	Top	A1	2M1, 1M2, 2R1.5
	Middle	A2	2M2
	Bottom	A3	3M2
<b>A dark</b>	Top	A3.5	3R2.5
	Middle		
	Bottom	A4	5M3, 4L2.5
<b>B light</b>	Top	B1	
	Middle		
	Bottom	B2	2L1.5
<b>B dark</b>	Top	B3	3L2.5
	Middle		
	Bottom	B4	3M3
<b>C light</b>	Top	C1	3M1
	Middle		
	Bottom	C2	3L1.5
<b>C dark</b>	Top	C3	
	Middle		4L1.5
	Bottom	C4	5M1, 5M2
<b>D light</b>	Top	D2	
	Middle	D3	4R1.5, 4R2.5
	Bottom	D4	3R1.5, 4M1, 4M2, 4M3
<b>priti® bleach</b>	Top		0M1, 0M2
	Middle		0M3
	Bottom		1M1



**Item number Extra Translucent**  
MPGEZR01



**Item number High Translucent**  
13103-E1100HT

# Accessories

## priti®pearl sintering beads, priti®clean cleaning powder



priti®pearl sintering beads Item number

2.0 mm diameter

13107-D300220



priti®clean cleaning powder

Item number

200 g

13107-D200200

### Uniform size, clean, fit for purpose

**priti®pearl sintering beads** are the ideal support when firing all-ceramic restorations.

priti®pearl sintering beads ensure safe and stable positioning of all-ceramic scaffolds in the furnace.

The beads are perfectly spherical so do not jam, even after the sintering shrinkage typical of zirconium oxide restorations, producing results free of any warping.

- ✦ For sintering temperatures up to 1,600°C
- ✦ Ø 2.0 mm
- ✦ Contents 200 g

### Cleans, protects, gently

**priti®clean cleaning powder** is your guarantee for ultra clean furnaces that ensure consistently colored sintering results.

Use priti®clean cleaning powder when you clean the furnace to ensure lasting results: Simply add the powder to the combustion chamber and run a standard sintering process to bind any residual impurities in the powder.

It is particularly important to clean sintering furnaces that are contaminated by dye liquids before sintering a pre-colored material for the first time. This prevents unpleasant surprises and allows optimum photo-optical results for the zirconium dioxide.

If the furnace is contaminated with foreign materials, this can cause unpredictable changes to translucency and color, frequently green and yellow discoloration. This also applies when sintering in combination with other materials, particularly if these have been stained manually.

For color constant, unadulterated sintering results we recommend cleaning regularly and replacing any contaminated sintering beads. Good side effect: Removing deposits from the furnace also increases the service life of the heating elements.

- ✦ Clean and consistently colored sintering results
- ✦ No green or yellow discoloration of the restorations
- ✦ Protects the service life of the heating elements
- ✦ No new deposits
- ✦ Contents 200 g

# Accessories

## priti®bowl sintering tray, MPT-Multicolor Positioning Tool pritidenta®

### Highly porous, durable, flexible

**priti®bowl sintering tray** is the right sintering tray for up to 1,000 standard and rapid sintering processes.

With the priti®bowl sintering tray, you obtain a durable base product for high-temperature applications of up to 1,550°C.

The crucible is made of aluminum oxide and the high porosity of the material means that it is highly resistant to changes in temperature.

It can be used for up to 1,000 firing cycles including rapid sintering. They are available in two diameters: 98 mm and 118 mm.

- ✦ For up to 1,000 firing cycles
- ✦ Suitable for rapid sintering
- ✦ Available in two diameters: Ø 98 mm, Ø 118 mm

### Digitalized, simulated, visualized

**MPT (Multicolor Positioning Tool pritidenta®)** is the software used to simulate the color effect after sintering depending on the positioning of the blank in the disc.

Using the MPT Multicolor Positioning Tool you can simulate the color gradient of the round blanks after sintering and project the color effect onto the planned restoration. The CAD file is uploaded in an open STL file.

The color gradient can be altered by rotating the blank and the color intensity can be determined by adjusting the height of the restoration. Depending on the level of integration, it can be transferred to the CAM software automatically, semi-automatically, or manually.



priti®bowl	Item number
98 mm diameter	11010-D000098
118 mm diameter	11010-D000118



MPT (Multicolor Positioning Tool pritidenta®)  
Item number 13103-E110000

*Enthusiasm  
is our passion.*



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