BEGO

COMPETENCE IN CERAMICS

Valid as of
January 2021

Partners in Progress

BEGO

NEW!
Now also with
color gradient

BEGO Zirkon ST / BEGO Zirkon ST Multi

Super translucent zirconium dioxide for large restorations

- Ultimate strength meets outstanding translucency
- Outstanding aesthetic results
- Consistent shade accuracy and reproducibility thanks to precolored blanks in 16 VITA* classical shades, BEGO Zirkon ST Multi also with color gradient**

- For the production of fully anatomical or reduced crowns and bridges for classical veneering and partial layering right up to maximum-length restorations
- Production of bridge frames with up to 16 units and up to two adjacent pontics

Product details

Indications

Fully anatomical crowns and bridges with up to 16 units and up to two pontics

Bridge frames for partially and fully veneered solutions with up to 16 units and up to two pontics

Dentin core crowns and bridges

Two-piece abutments

Extras

Telescopic primary crowns

*   This symbol is a commercial designation/registered trademark of a company which is not part of the BEGO company group.
** The C and D colors with gradient are, contrary to the A an B colors, only following the VITA classical colors. As a result, color variations and lighter basic colors appear in this selection.
Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.

BEGO Zirkon LT

Translucent zirconium dioxide for ceramic frames

- High level of shade fidelity thanks to the BEGO shade concept consisting of a total of five shades
- Consistent shade accuracy and reproducibility thanks to precolored blanks

- All-ceramic zirconium dioxide frame material for ceramic veneering

Product details

Indications
Frames for partially and fully veneered solutions with up to 16 units and up to two pontics
Two-piece abutments

Extras
Telescopic primary crowns

Shade overview BEGO Zirkon LT01 – LT05

LT01	LT02	LT03	LT04	LT05

Correspondence of BEGO Zirkon LT01 – LT05 to VITA* classical shade system

A1	A2	A3	A3,5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
LT01	LT02	LT04	LT03	LT03	LT01	LT02	LT04	LT03	LT01	LT05	LT05	LT03	LT05	LT05	LT02

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KATANA Zirconia UTML

Ultra translucent zirconium dioxide with color graduation for natural aesthetics in the anterior region

- Above-average translucency compared with other materials
- Natural aesthetics thanks to integrated color graduation
- Ideal for restorations in the anterior region

- No laborious pretreatment required when placing the restoration
- Simple handling – only polishing or glazing required
- Available in 16 VITA* classical shades

Product details

Indications
Inlays, onlays, veneers and single-tooth restorations
Bridges of up to three units in the anterior region

Recommendations for Shade Selection

The range of abutment color varies by the translucency of the series.

Abutment color examples

UTML

Select the shade number that corresponds to the target color.
Select a shade number one level brighter than the target color (with external staining).

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KATANA Zirconia STML

Super translucent zirconium dioxide with color gradation for highly aesthetic restorations including the posterior region

- Light refraction similar to that of natural teeth
- Aesthetic restorations practically independent of tooth stump color
- Integrated translucency and color gradation

- No laborious pretreatment required when placing the restoration
- Simple handling – only polishing or glazing required
- Available in 13 VITA* classical shades
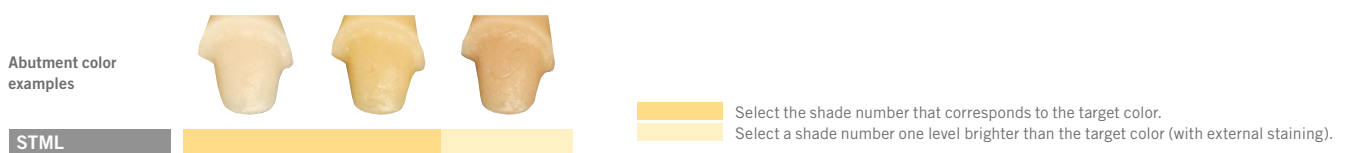
Product details

Indications

Single-tooth restorations

Bridges of up to three units

Two-piece abutments

Recommendations for Shade Selection

The range of abutment color varies by the translucency of the series.

Abutment color examples

STML

Select the shade number that corresponds to the target color.
Select a shade number one level brighter than the target color (with external staining).

Overview of BEGO Ceramics

Chemical composition and technical properties

Overview of BEGO Ceramics

Indications	BEGO Zirkon ST / BEGO Zirkon ST Multi	BEGO Zirkon LT
Inlays / Onlays / Veneers	✓	✓
Single-tooth restorations	✓	✓
Telescopic primary crowns	✓✓	✓✓
Full anatomical bridge three units anterior region	✓	✓
Full anatomical bridge three units posterior region	✓✓	✓
Reduced large bridge with up to two pontics	✓	✓✓
Two-piece abutments	✓✓ (BEGO Zirkon ST Multi)	✓✓
Bonded bridges on titanium base	✓✓ (BEGO Zirkon ST Multi)	✓✓
Dentin core crowns and bridges	✓✓	✓✓

Chemical composition		
$ZrO_2 + HfO_2 + Y_2O_3$	≥ 98.5 %	≥ 99.5 %
$ZrO_2 + HfO_2$	–	–
Yttrium oxide (Y_2O_3)	6.75 – 7.15 %	5.2 %
Aluminum oxide (Al_2O_3)	0.04 – 0.06 %	0.25 %
Sum of all other oxides	≤ 1.5 %	≤ 0.5 %

Technical properties		
Density	6.06 g/cm³	6.08 g/cm³
Vickers hardness (HV 1)	1,250 MPa	1,250 MPa
Flexural strength	> 1,000 MPa	> 1,100 MPa
Translucency	45 %	35 %
Coefficient of thermal expansion (25 – 500°C)	–	–
Coefficient of thermal expansion (25 – 600°C)	10.8 $10^{-6}\,K^{-1}$	11.2 $10^{-6}\,K^{-1}$

✓✓ recommended   ✓ indicated / suitable

KATANA* Zirconia UTML	KATANA Zirconia STML
✓✓	✓
✓✓	✓✓
✓	✓
✓✓	✓
–	✓✓
–	–
–	✓✓
–	–
✓✓	✓✓

–	–
87 – 92 %	88 – 93 %
8 – 11 %	7 – 10 %
–	–
0 – 2 %	0 – 2 %

–	–
–	–
557 MPa	748 MPa
43 %	38 %
$9.7 \pm 0.2 \cdot 10^{-6}$ K^{-1}	$9.8 \pm 0.2 \cdot 10^{-6}$ K^{-1}
–	–

Recommendations for Shade Selection

The colors of BEGO Zirkon ST are selected on the basis of fully anatomical units. In the case of zirconium oxide with a shade grandient, such as BEGO Zirkon ST Multi, is the shade effect significantly influenced by the wall thickness of the restorations. Thinly designed models and frameworks appear therefore significantly brighter (up to two tooth shadees) than the selected shade. This should be absolutely considered when choosing the shade.

Zirconia with a high refractive index tends to look brighter on the posterior area. For posterior restorations, choose one shade darker than the target shade to achieve a natural look with surrounding teeth.

Even when the same shade color is used, the glazing and polishing will result in different color outcomes:
- For glazing, select the target shade color.
- For polishing, it tends to become one shade darker. Therefore, select one lighter shade than the target shade color.

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