

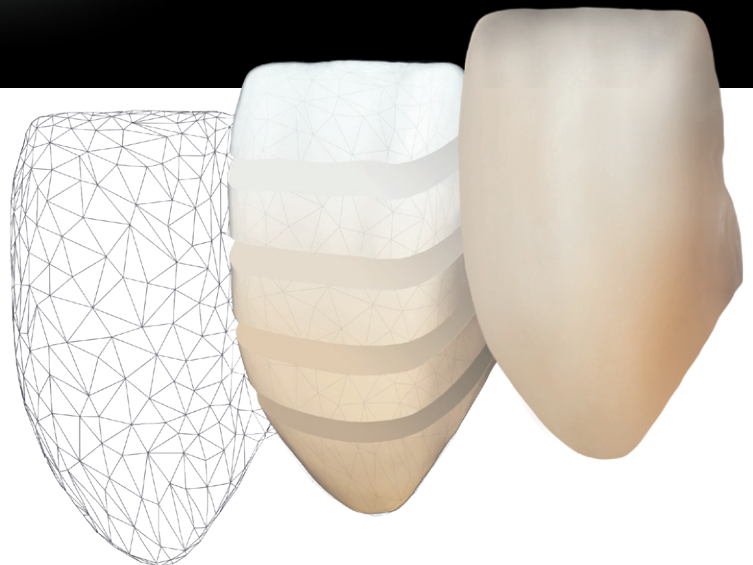
Multitalent

Aesthetic high performance ceramics



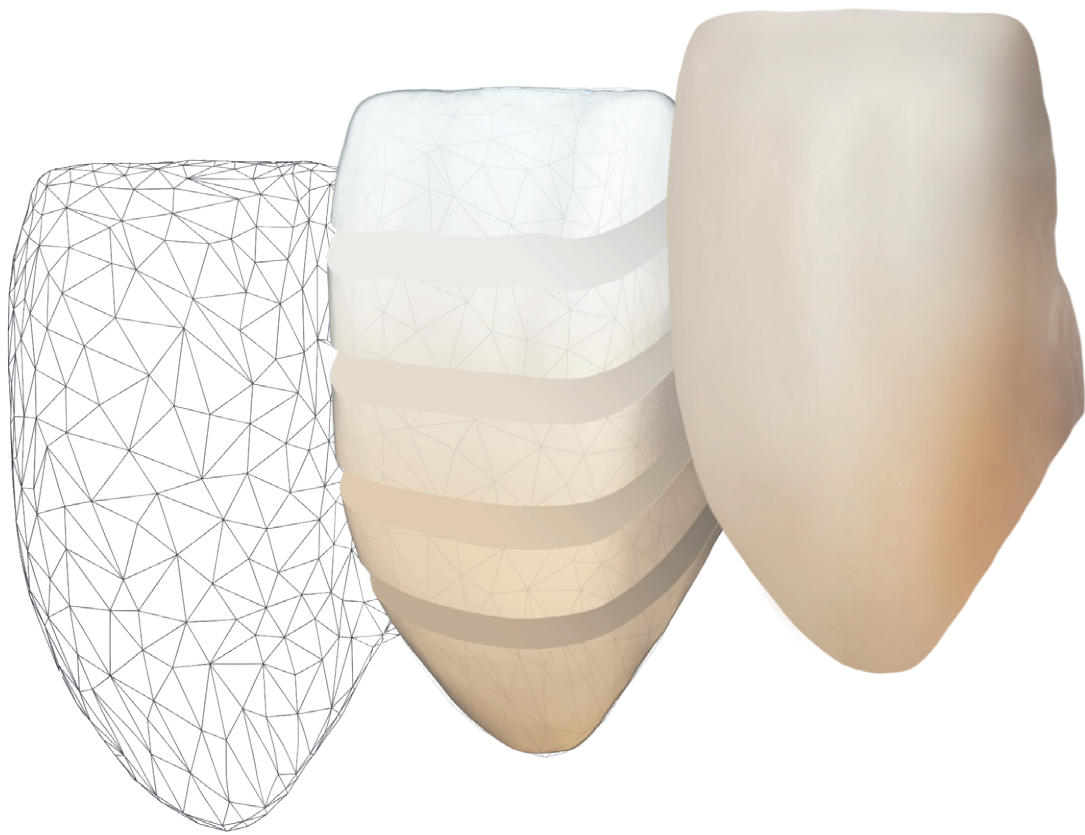
DDcubeX²ML[®]
multilayer – cubic zirconia system

Flexural strength > 800 MPa
Translucency up to 49%



CLOSE TO YOU

 **Dental
Direkt**



cubic zirconia system

Aesthetic high performance ceramics

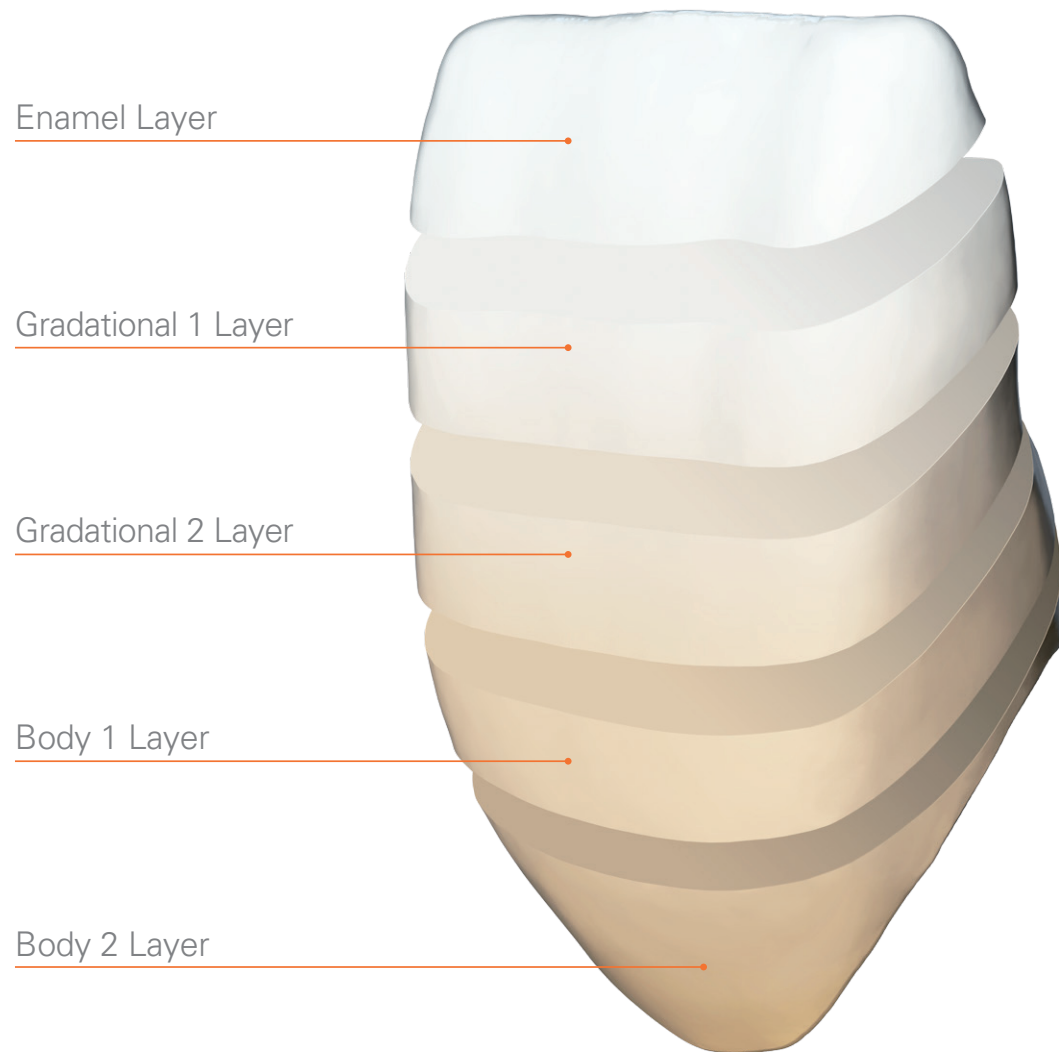
DDcubeX²ML[®]

multilayer – cubic zirconia system

The Multitalent in the cubic zirconia system[®]

Based on the “DD cubeX² – cubic zirconia system[®]” the blanks offer a flowing color gradation from cervical to incisal. The manufacture of aesthetic monoliths has never been this efficient before. The lively chroma and an increase of translucency in the incisal third meet the highest demands of modern CAD materials.

- Individual color gradients - which would otherwise only be possible with the extensive color-brush technique
- High color reliability - due to industrial coloring compared to brush technique
- Reliable color and translucence gradient - due to the Multi Additive Technology[®]
- Resistant to warping during sintering - due to individual isostatic redensification of each blank



9 Layers

The 5 main layers are optimized in terms of chemistry and grain size to one another. This ensures a homogeneous and continuously diffusing in the 4 transition layers.

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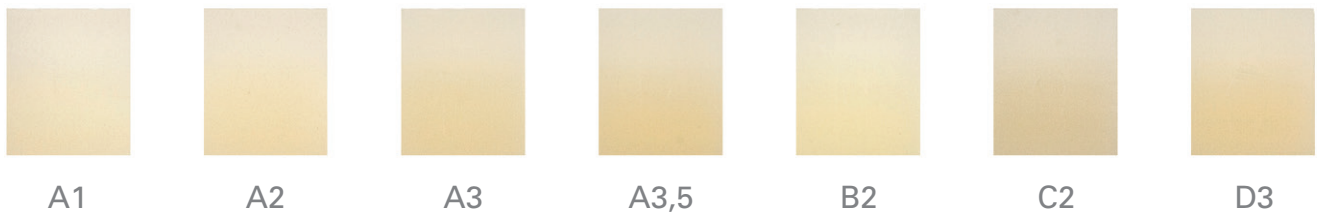
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Color with concept

The blanks guarantee colors according to VITA[®] and an overlapping, continuous color gradient. The chroma is reduced and significantly brightened in the incisal.

The production process and quality assurance in our transparent production are characterised by a high level of automation. Close tolerances and sensitive measuring technology ensure a precise reproducibility of the color layers.

As a result you be assured that the desired color gradient as planned in CAD/CAM nesting is achieved after milling and sintering. The height of incisal and lower dentine layers are designed for a flexible variation of color intensity.



Colors correspond to VITA[®] color key. Cross view of 14 mm blanks.



A1

A2

A3

A3,5

B2

C2

D3

Anterior, milled as pontic (closed form) from DD cubeX²® ML. Underexposure on light pad.

Translucency 44% cervical up to 49% incisal

Source: R&D Dental Direkt. Spectrophotometer on 1mm thick, polished samples from color A3. Values vary and are higher in brighter colours.

cubic zirconia system

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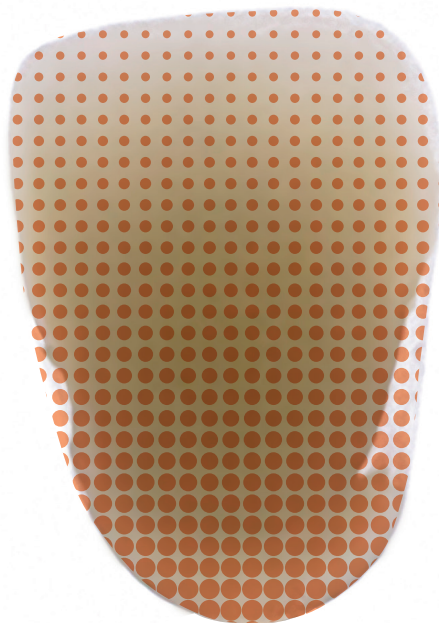
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Multi Additive Technology[®]

We describe our procedure for the balanced formulation and homogeneous distribution of the chromophoric ions in the structure as Multi Additive Technology[®].

The color and translucency effect is created through the interaction of light with the zirconium oxide structure modified by the color additives.


We control the refraction of light through the precise reduction of additives in the layers. This is how you achieve a natural translucency gradient. The cubic zirconium oxide unfurls its complete translucence in the upper incisal third.



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Technical data	
Material	5Y-TZP (ZrO ₂ + HfO ₂ + Y ₂ O ₃ > 99%, Y ₂ O ₃ ~ 5 mol.%)
Indication ISO 6872*	Bridges with up to three units, including molar restorations (type II, class 4)
Color	7 Vita [®] Preshaded colors Polychrome – 5 main layers – 4 transition layers Multi Additive Technology [®]
Flexural strength ISO 6872*	> 800 MPa (3 point test)
Crystal structure	50% cubic / 50% tetragonal
Translucency, 1mm	44% cervical up to 49% incisal (1 mm thick, polished samples per layer, color A3)

 See instructions for use.
*ISO 6872:2015



measures	A1	A2	A3	A3,5
98,5 x 14 mm	G852007	G852001	G852002	G852003
98,5 x 18 mm	G854007	G854001	G854002	G854003
98,5 x 22 mm	G856007	G856001	G856002	G856003



measures	B2	C2	D3
98,5 x 14 mm	G852004	G852005	G852006
98,5 x 18 mm	G854004	G854005	G854006
98,5 x 22 mm	G856004	G856005	G856006

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