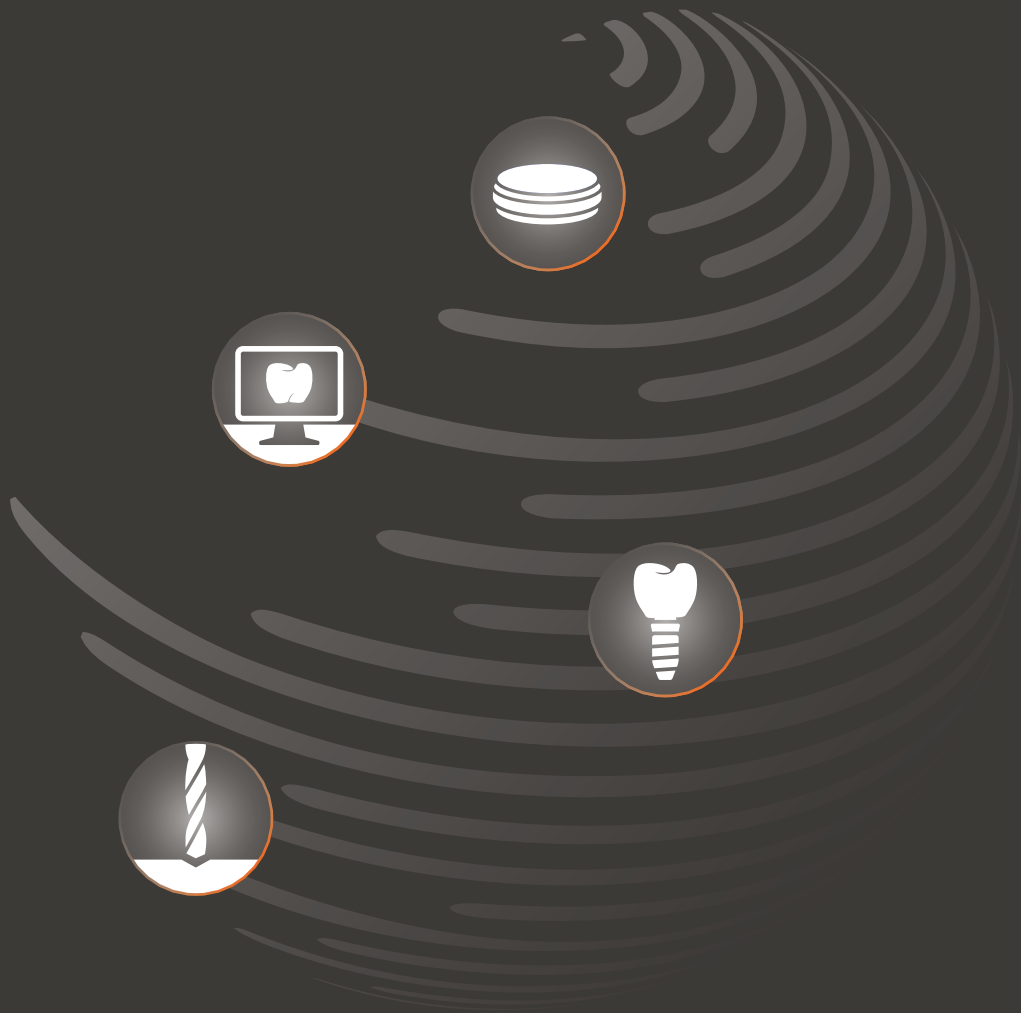




Product catalog
CAD/CAM
Materials

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Materials

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High Performance Ceramics

01

The raw materials

For us, it is a matter of course that only materials with the best properties come into consideration for dental products. The biocompatibility is the ultimate priority, in the selection of raw materials. Moreover only a high-purity, nanoscale ZrO_2 is suitable for medical use. To ensure reproducible batch stability, the raw material must indicate an extremely homogenous grain size distribution.

Chemical composition [wt.%]

	HS	HT	HT+	SHT
	DDBioZ 3Y-TZP-A	DDBioZX² 3Y-TZP-LA	DDcubeONE[®] 4Y-TZP	DDcubeX²[®] 5Y-TZP
$ZrO_2 + HfO_2 + Y_2O_3$	≥ 99,0	≥ 99,0	≥ 99,0	≥ 99,0
Y_2O_3	< 6	< 6	< 8	< 10
Al_2O_3	< 0,5	≤ 0,15	< 0,15	≤ 0,01
Other oxides	< 1	< 1	< 1	< 1






	HS	HT	HT+	SHT
	DDBioZcolor 3Y-TZP-A	DDBioZX²color 3Y-TZP-LA	DDcubeONE[®]ML 4Y-TZP	DDcubeX²[®]ML 5Y-TZP
Color method	Multi Additive Technology [®]	Multi Additive Technology [®]	Multi Additive Technology [®]	Multi Additive Technology [®]
Industrial precolored blanks				
Additive	Fe ₂ O ₃ Er ₂ O ₃ MnO ₂	Fe ₂ O ₃ Er ₂ O ₃ MnO ₂	Fe ₂ O ₃ Er ₂ O ₃ Co ₃ O ₄	Fe ₂ O ₃ Er ₂ O ₃ MnO ₂
Colors	in 8 VITA [®] shades + 5 Universal shades	in 16 VITA [®] shades + 5 Universal shades	in 16 VITA [®] shades + 1 Bleach shade	in 16 VITA [®] shades + 1 Bleach shade

Multi Additive Technology[®]— more than just color

We achieve brilliant color effects by adding selected ions of rare soils or transition metals into the zirconium matrix. Our balanced ion formulation and the homogeneous distribution in the zirconia structure is what we call Multi Additive Technology[®]. It is the key to excellent mechanical and optical characteristics.

By means of our Multi Additive Technology colored blanks show anatural chroma based on the definition in the VITA classical[®] color scale, while maintaining the natural translucency of the zirconia material.



	<div>SHT</div> <div>Super High Translucent</div>	<div>HT+</div> <div>High Translucent Plus</div>
<div>MULTI LAYER</div>	<div>DDcubeX²ML</div> <div></div> <div>16 VITA®- + 1 Bleach shade</div>	<div>DDcubeONE^{ML}</div> <div></div> <div>16 VITA®- + 1 Bleach shade</div>
<div>MONO CHROME</div>		
<div>WHITE</div>	<div>DDcubeX²</div> <div></div>	<div>DDcubeONE</div> <div></div>
<div>Dentine Liquids</div> <div></div>	<div>DDProShade^C</div> <div>DDBasicShade</div>	<div>DDProShade^Z</div> <div>DDBasicShade</div>

HT

High Translucent

HS

High Strength

DDBioZX²color



16 VITA®-
+ 5 Universal
shades

DDBioZcolor



8 VITA®-
+ 5 Universal
shades

DDBioZX²

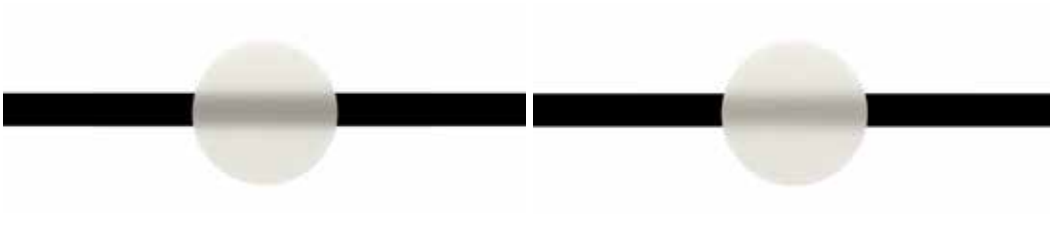


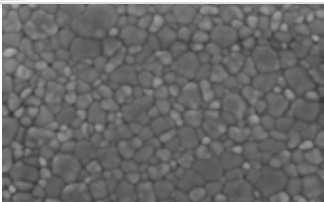
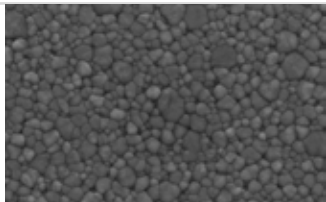


DDBioZ



DDProShadeZ
DDBasicShade

DDProShadeZ
DDBasicShade

	<div>SHT</div> <div>Super High Translucent</div>	<div>HT+</div> <div>High Translucent Plus</div>
	<div><i>DDcubeX²</i></div> <div>5Y-TZP</div>	<div><i>DDcubeONE</i></div> <div>4Y-TZP</div>
		
<div>Translucency</div> <div>(1 mm thick)</div>	<div>%</div> <div>49%</div>	<div>%</div> <div>45%</div>
<div>Strength</div> <div>MPa</div>	<div>750 MPa (white) – 800 MPa (ML)</div>	<div>> 1.250 MPa (white and ML)</div>
<div>Type and Indication</div> <div>(ISO 6872)</div>	<div>type II, class 4</div> <div>  </div> <div>≤ 3 units</div>	<div>type II, class 5</div> <div>  </div> <div>≥ 4 units</div>
<div>Cubic phase</div> <div>%</div>	<div>~ 50%</div>	<div>~ 30%</div>
<div>SEM picture of crystal structure</div>	<div>  <div>x10,000 1 μm —</div> </div>	<div>  <div>x10,000 1 μm —</div> </div>

Sources:

Accredited test laboratory. Bending strength measured in accordance with DIN EN ISO 6872 in the 3- point or *4-point approach. 4-point bending strength values are generally lower than 3- point values.

R&D Dental Direkt. Translucency measured by means of a spectrophotometer on 1 mm thick, polished samples.

HT

High Translucent

HS

High Strength

DDBioZX²

3Y-TZP-LA

DDBioZ

3Y-TZP-A



40%

35%

1.100 MPa* (white) – 1.250 MPa (color)

1.300 MPa* (white) – 1.450 MPa (color)

type II, class 5



≥ 4 units

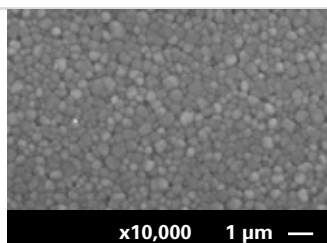
type II, class 5



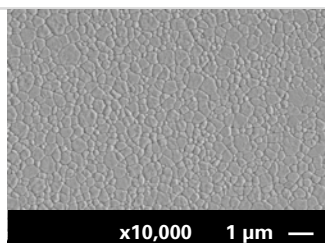
≥ 4 units

~ 0%
























0%



x10,000 1 µm —



x10,000 1 µm —

		veneers	inlays/ onlays	reduced crown	full contour crown anterior tooth	full contour crown posterior tooth	Hybrid abutment crown
							
SHT	<i>DDcubeX²</i> <i>DDcubeX²ML</i>						
HT+	<i>DDcubeONE</i> [®] <i>DDcubeONE_{ML}</i> [®]						
HT	<i>DDBioZX²</i> <i>DDBioZX²color</i>						
HS	<i>DDBioZ</i> <i>DDBioZcolor</i>						

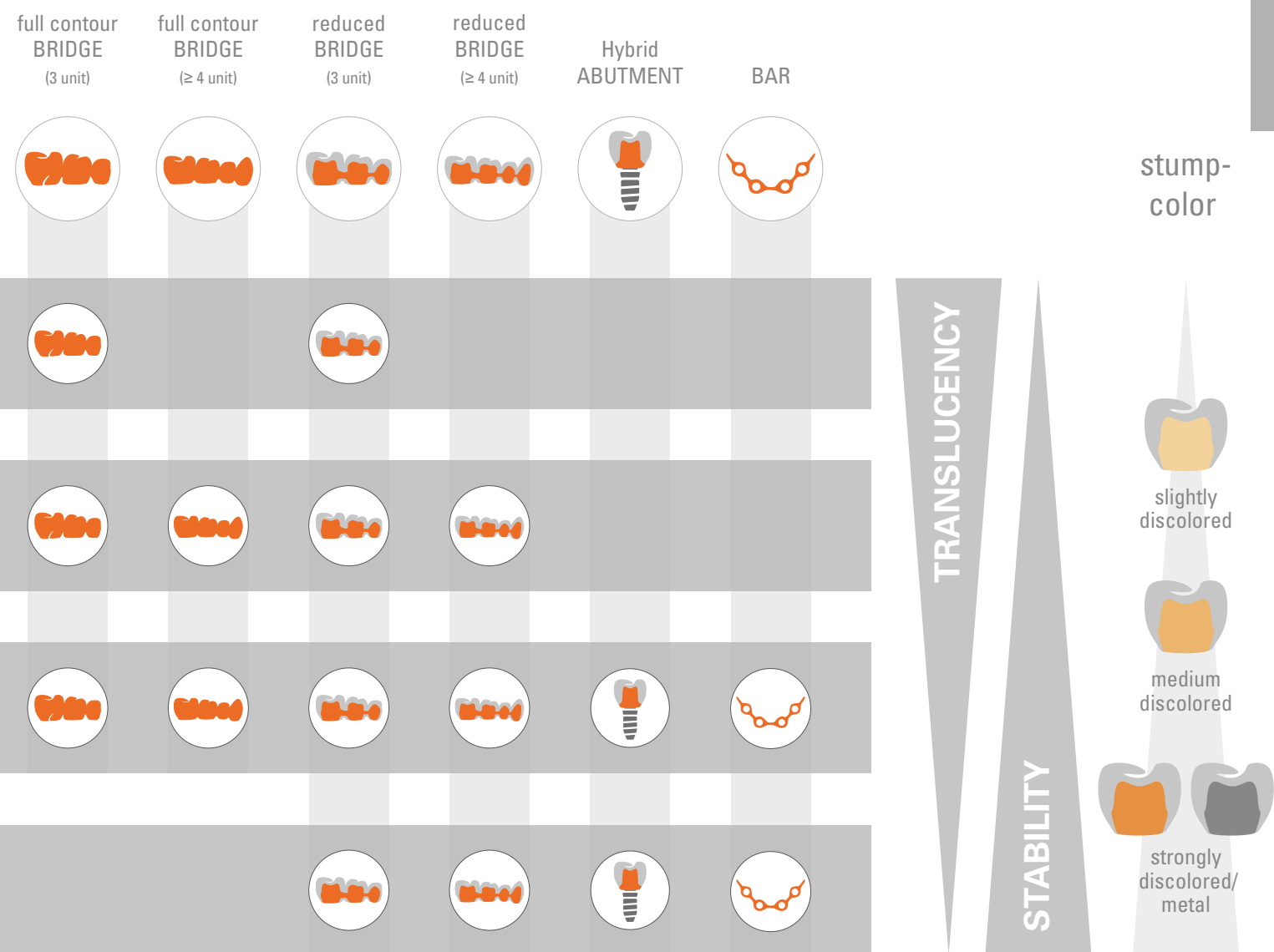
Ideal results depend on individual circumstances.

Influence on the final shade of a fixed restoration

When choosing a zirconia material for a specific clinical case several aspects should be considered, because the individual patients conditions might offer very different preconditions.

An important factor is the shade of the stump. If there is no serious deviation from the desired final shade of the fixed restoration, a super high translucent zirconia (DD cubeX²®) might be the material of choice.

The quantity of substance removal by preparation can be significant as well, as it affects the wall thickness of the restoration. The thinner a restoration the higher its translucency, the more an underlying tooth structure will influence the final shade appearance.



Indication guide_DD medical zirconia_Rev.05_2019/01

In case of a significantly discolored stump and preparation with low substance removal a more opaque zirconia (DD Bio ZX², DD Bio Z) could be used to cover up the underlying structure.

Especially when working with a high translucent plus (DD cube ONE®) or super high translucent zirconia material also the cement has to be well-chosen, taking its level of opacity and shade into consideration. Opaque or colored cementation materials might change the shade effect of super high translucent zirconia. Translucent cements on the other side hardly influence the interaction of tooth structure and restoration.



You find our cementation guide on www.dentaldirekt.de/en/downloads

DDcubeX²[®]



DDcubeX²[®]

cubic zirconia system

perfectly suitable for

- High aesthetic monolithic crowns and bridges (up to 3 units, including molar restorations)
- Especially for monolithic anterior restorations (bridges up to 3 units)
- Cut back (one layer)
- High aesthetic veneering



Technical data

Type	5Y-TZP
Classification	Class IIa according to MDD/MDR
Indication ISO 6872	Type II, class 4 – max. 3 unit bridges incl. molar restorations
Color	White
Aesthetics	Super High Translucent
Sintering temperature	1.450 °C
Bending strength	750 MPa (3 point test)
Fracture toughness	> 4,0 MPa√m
CAM system	Open systems for Ø 98,5 mm blanks
DD Coloring liquids	DD Pro Shade C DD Basic Shade DD Art Elements

Measure	Order-no.	Price (euro/net)
98,5 x 10 mm	G 710	149,00
98,5 x 12 mm	G 711	169,00
98,5 x 14 mm	G 712	179,00
98,5 x 16 mm	G 713	199,00
98,5 x 18 mm	G 714	219,00
98,5 x 20 mm	G 715	229,00
98,5 x 25 mm	G 716	259,00



Consult instructions for use.

Not all products are available in every country.

DDcubeX²ML[®]

multilayer – cubic zirconia system

perfectly suitable for

- High aesthetic monolithic crowns and bridges (up to 3 units, including molar restorations)
- Especially for monolithic anterior restorations (bridges up to 3 units)
- Cut back (one layer)
- High aesthetic veneering

Technical data	
Type	5Y-TZP
Classification	Class IIa according to MDD/MDR
Indication ISO 6872	Type II, class 4 – max. 3 unit bridges incl. molar restorations
Color	Precolored acc. to VITA [®]
Aesthetics	Super High Translucent
Sintering temperature	1.450 °C
Bending strength	800 MPa (3 point test)
Fracture toughness	> 4,0 MPa√m
CAM system	Open systems for Ø 98,5 mm blanks
Multi Additive Technology [®]	Reliable reproduction of color via industrial coloring



Measure	Bleach	A1	A2	A3	A3,5	A4	Price (euro/net)
98,5 x 14 mm	G852017	G852007	G852001	G852002	G852003	G852009	179,00
98,5 x 18 mm	G854017	G854007	G854001	G854002	G854003	G854009	219,00
98,5 x 22 mm	G856017	G856007	G856001	G856002	G856003	G856009	259,00



Consult instructions for use.

Not all products are available in every country.



Measure	B1	B2	B3	B4	Price (euro/net)
98,5 x 14 mm	G852008	G852004	G852010	G852011	179,00
98,5 x 18 mm	G854008	G854004	G854010	G854011	219,00
98,5 x 22 mm	G856008	G856004	G856010	G856011	259,00

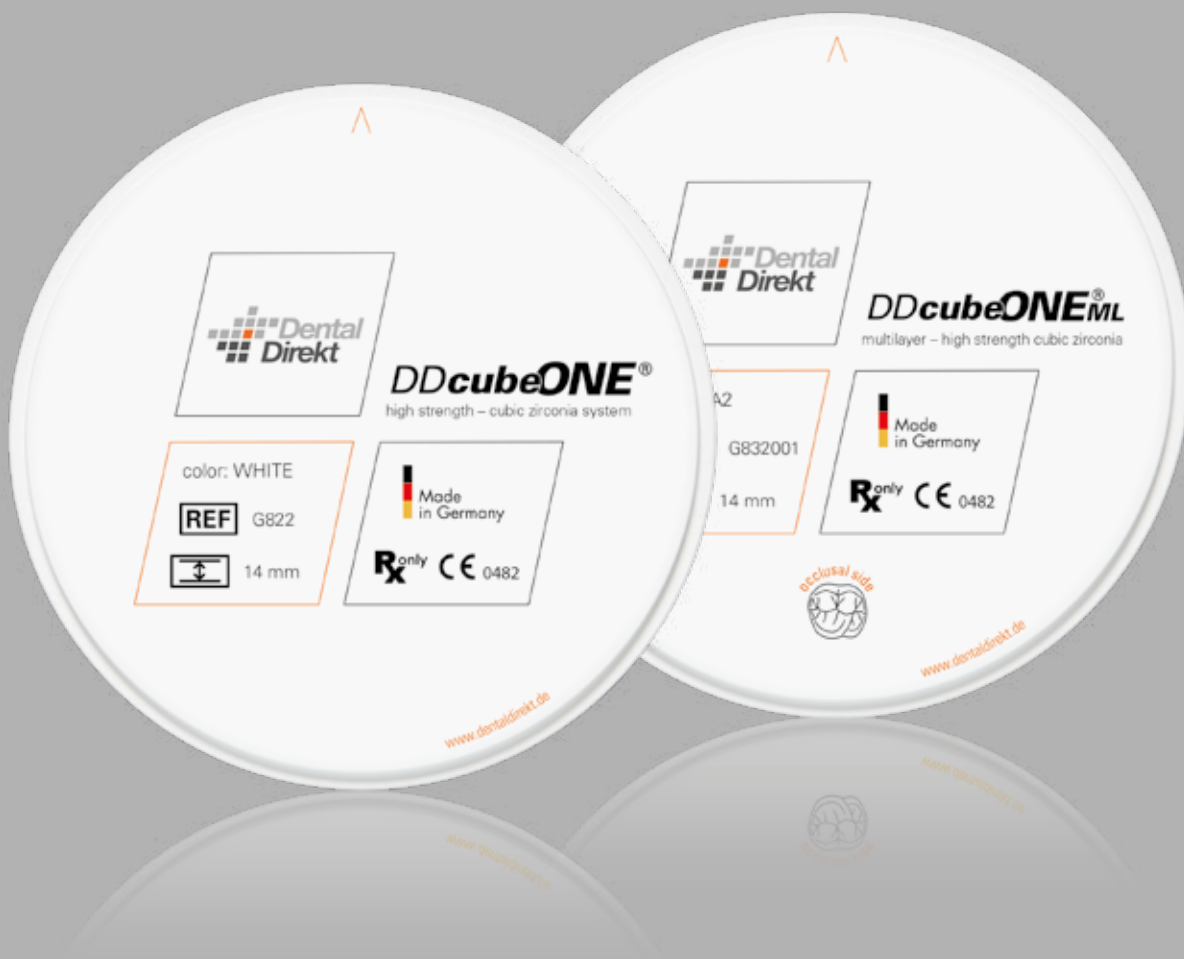


Measure	C1	C2	C3	C4	Price (euro/net)
98,5 x 14 mm	G852012	G852005	G852013	G852014	179,00
98,5 x 18 mm	G854012	G854005	G854013	G854014	219,00
98,5 x 22 mm	G856012	G856005	G856013	G856014	259,00



Measure	D2	D3	D4	Price (euro/net)
98,5 x 14 mm	G852015	G852006	G852016	179,00
98,5 x 18 mm	G854015	G854006	G854016	219,00
98,5 x 22 mm	G856015	G856006	G856016	259,00

DDcubeONE®



DDcubeONE®

high strength – cubic zirconia system

perfectly suitable for

- High aesthetic monolithic crowns and bridges (≥ 4 units)
- Especially for monolithic anterior restorations (bridges ≥ 4 units)
- Cut back (one layer)
- High aesthetic veneering



Technical data

Type	4Y-TZP
Classification	Class IIa according to MDD/MDR
Indication ISO 6872	Type II, class 5 – all dental constructions, all bridges ≥ 4 elements with max. 2 connected pontics
Color	White
Aesthetics	High Translucent Plus
Sintering temperature	1.450 °C
Bending strength	> 1.250 MPa (3 point test)
Fracture toughness	~ 10 MPa√m
CAM system	Open systems for Ø 98,5 mm blanks
DD Coloring liquids	DD Pro Shade Z DD Basic Shade DD Art Elements

Measure	Order-no.	Price (euro/net)
98,5 x 10 mm	G820	149,00
98,5 x 14 mm	G822	179,00
98,5 x 18 mm	G824	219,00
98,5 x 20 mm	G825	229,00
98,5 x 25 mm	G826	259,00

Consult instructions for use.
Not all products are available in every country.

DDcubeONE[®]ML

multilayer – high strength cubic zirconia

perfectly suitable for

- High aesthetic monolithic crowns and bridges (≥ 4 units)
- Especially for monolithic anterior restorations (bridges ≥ 4 units)
- Cut back (one layer)
- High aesthetic veneering

Technical data

Type	4Y-TZP
Classification	Class IIa according to MDD/MDR
Indication ISO 6872	Type II, class 5 – all dental constructions, all bridges ≥ 4 elements with max. 2 connected pontics
Color	Precolored acc. to VITA [®]
Aesthetics	High Translucent Plus
Sintering temperature	1.450 °C
Bending strength	> 1.250 MPa (3 point test)
Fracture toughness	~ 10 MPa√m
CAM system	Open systems for Ø 98,5 mm blanks
Multi Additive Technology [®]	Reliable reproduction of color via industrial coloring



Measure	Bleach	A1	A2	A3	A3,5	A4	Price (euro/net)
98,5 x 14 mm	G832017	G832007	G832001	G832002	G832003	G832009	179,00
98,5 x 18 mm	G834017	G834007	G834001	G834002	G834003	G834009	219,00
98,5 x 22 mm	G836017	G836007	G836001	G836002	G836003	G836009	259,00



Consult instructions for use.

Not all products are available in every country.



Measure	B1	B2	B3	B4	Price (euro/net)
98,5 x 14 mm	G832008	G832004	G832010	G832011	179,00
98,5 x 18 mm	G834008	G834004	G834010	G834011	219,00
98,5 x 22 mm	G836008	G836004	G836010	G836011	259,00



Measure	C1	C2	C3	C4	Price (euro/net)
98,5 x 14 mm	G832012	G832005	G832013	G832014	179,00
98,5 x 18 mm	G834012	G834005	G834013	G834014	219,00
98,5 x 22 mm	G836012	G836005	G836013	G836014	259,00



Measure	D2	D3	D4	Price (euro/net)
98,5 x 14 mm	G832015	G832006	G832016	179,00
98,5 x 18 mm	G834015	G834006	G834016	219,00
98,5 x 22 mm	G836015	G836006	G836016	259,00

DDBioZX²



DDBioZX²

high translucent zirconia

perfectly suitable for

- Monolithic crowns and bridges (of any span range)
- Especially for monolithic bridges ≥ 4 units
- Cut back (one layer)
- High aesthetic veneering (of any span range)



Technical data

Type	3Y-TZP-LA
Classification	Class IIa according to MDD/MDR
Indication ISO 6872	Type II, class 5 – all dental constructions, all bridges ≥ 4 elements with max. 2 connected pontics
Color	White
Aesthetics	High Translucent
Sintering temperature	1.450 °C
Bending strength	1.100 MPa (4 point test)
Fracture toughness	> 10 MPa√m
CAM system	Open systems for Ø 98,5 mm blanks
DD Coloring liquids	DD Pro Shade Z DD Basic Shade DD Art Elements

Measure	Order-no.	Price (euro/net)
98,5 x 10 mm	G 590	119,00
98,5 x 12 mm	G 591	139,00
98,5 x 14 mm	G 592	149,00
98,5 x 16 mm	G 593	169,00
98,5 x 18 mm	G 594	189,00
98,5 x 20 mm	G 595	199,00
98,5 x 25 mm	G 596	229,00



Consult instructions for use.

Not all products are available in every country.

DDBioZX²19

high translucent zirconia

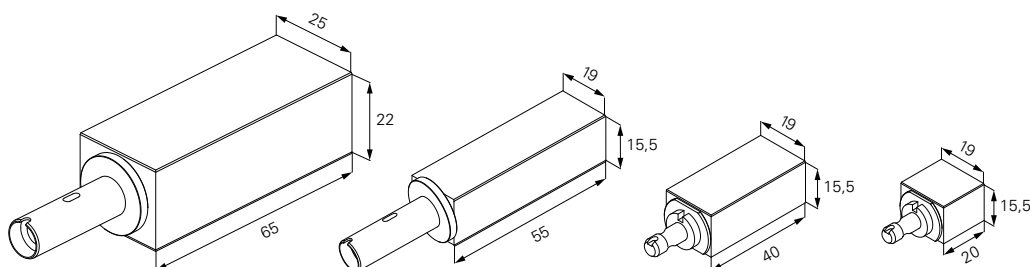
Technical data

Type	3Y-TZP-LA
Classification	Class IIa according to MDD/MDR
Indication ISO 6872	Type II, class 5 – all dental constructions, all bridges ≥ 4 elements with max. 2 connected pontics
Color	White
Aesthetics	High Translucent
Sintering temperature	1.450 °C
Bending strength	1.100 MPa (4 point test)
Fracture toughness	> 10 MPa√m
CAM system	Sirona inLab [®] and inLab [®] MC XL system
DD Coloring liquids	DD Pro Shade Z DD Basic Shade DD Art Elements



perfectly suitable for

- Monolithic crowns and bridges (of any span range)
- Especially for monolithic bridges ≥ 4 units
- Cut back (one layer)
- High aesthetic veneering (of any span range)



Article	DD Bio ZX ² 65/25	DD Bio ZX ² 55/19 MC XL	DD Bio ZX ² 40/19	DD Bio ZX ² 20/19
Order-no.	G 613	G 612.1	G 611	G 610
Measure in mm	65 x 25 x 22	55 x 19 x 15,5	40 x 19 x 15,5	20 x 19 x 15,5
Item	1	2	10	24
Price (euro/net)	89,00	99,00	249,00	319,00



Consult instructions for use.

Not all products are available in every country.

DDBioZX²color

natural chroma – high translucent zirconia

perfectly suitable for

- Monolithic crowns and bridges (of any span range)
- Especially for monolithic bridges ≥ 4 units
- Cut back (one layer)
- High aesthetic veneering (of any span range)



Technical data

Type	3Y-TZP-LA
Classification	Class IIa according to MDD/MDR
Indication ISO 6872	Type II, class 5 – all dental constructions, all bridges ≥ 4 elements with max. 2 connected pontics
Color	5 universal colors
Aesthetics	High Translucent
Sintering temperature	1.450 °C
Bending strength	1.250 MPa (3 point test)
Fracture toughness	> 10 MPa√m
CAM system	Open systems for Ø 98,5 mm blanks
Multi Additive Technology®	Reliable reproduction of color via industrial coloring



Measure	light A1 · A2 · B1 B2 · C1	medium A3 · B3 · B4 · C2 C3 · D2 · D3 · D4	intense A3,5 · A4 · C4	low chromatic A1 · A2 · A3 · B2 B3 · D2 · D3	high chromatic A3,5 · A4 · B4	Price (euro/net)
98,5 x 10 mm	G 590.001.0	G 590.002.0	G 590.003.0	G 590.004.0	G 590.005.0	139,00
98,5 x 14 mm	G 592.001.0	G 592.002.0	G 592.003.0	G 592.004.0	G 592.005.0	159,00
98,5 x 18 mm	G 594.001.0	G 594.002.0	G 594.003.0	G 594.004.0	G 594.005.0	199,00
98,5 x 20 mm	G 595.001.0	G 595.002.0	G 595.003.0	G 595.004.0	G 595.005.0	214,00
98,5 x 25 mm	G 596.001.0	G 596.002.0	G 596.003.0	G 596.004.0	G 596.005.0	249,00



Consult instructions for use.

Not all products are available in every country.

DDBioZX²color

natural chroma – high translucent zirconia
according to VITA® shades

perfectly suitable for

- Monolithic crowns and bridges (of any span range)
- Especially for monolithic bridges ≥ 4 units
- Cut back (one layer)
- High aesthetic veneering (of any span range)



Technical data

Type	3Y-TZP-LA
Classification	Class IIa according to MDD/MDR
Indication ISO 6872	Type II, class 5 – all dental constructions, all bridges ≥ 4 elements with max. 2 connected pontics
Color	Precolored acc. to VITA®
Aesthetics	High Translucent
Sintering temperature	1.450 °C
Bending strength	1.250 MPa (3 point test)
Fracture toughness	> 10 MPa√m
CAM system	Open systems for Ø 98,5 mm blanks
Multi Additive Technology®	Reliable reproduction of color via industrial coloring



Measure	A1	A2	A3	A3,5	A4	Price (euro/net)
98,5 x 10 mm	G 590.012.0	G 590.006.0	G 590.007.0	G 590.008.0	G 590.013.0	139,00
98,5 x 14 mm	G 592.012.0	G 592.006.0	G 592.007.0	G 592.008.0	G 592.013.0	159,00
98,5 x 18 mm	G 594.012.0	G 594.006.0	G 594.007.0	G 594.008.0	G 594.013.0	199,00
98,5 x 20 mm	G 595.012.0	G 595.006.0	G 595.007.0	G 595.008.0	G 595.013.0	214,00
98,5 x 25 mm	G 596.012.0	G 596.006.0	G 596.007.0	G 596.008.0	G 596.013.0	249,00



Consult instructions for use.

Not all products are available in every country.



Measure	B1	B2	B3	B4	Price (euro/net)
98,5 x 10 mm	G 590.014.0	G 590.009.0	G 590.015.0	G 590.016.0	139,00
98,5 x 14 mm	G 592.014.0	G 592.009.0	G 592.015.0	G 592.016.0	159,00
98,5 x 18 mm	G 594.014.0	G 594.009.0	G 594.015.0	G 594.016.0	199,00
98,5 x 20 mm	G 595.014.0	G 595.009.0	G 595.015.0	G 595.016.0	214,00
98,5 x 25 mm	G 596.014.0	G 596.009.0	G 596.015.0	G 596.016.0	249,00

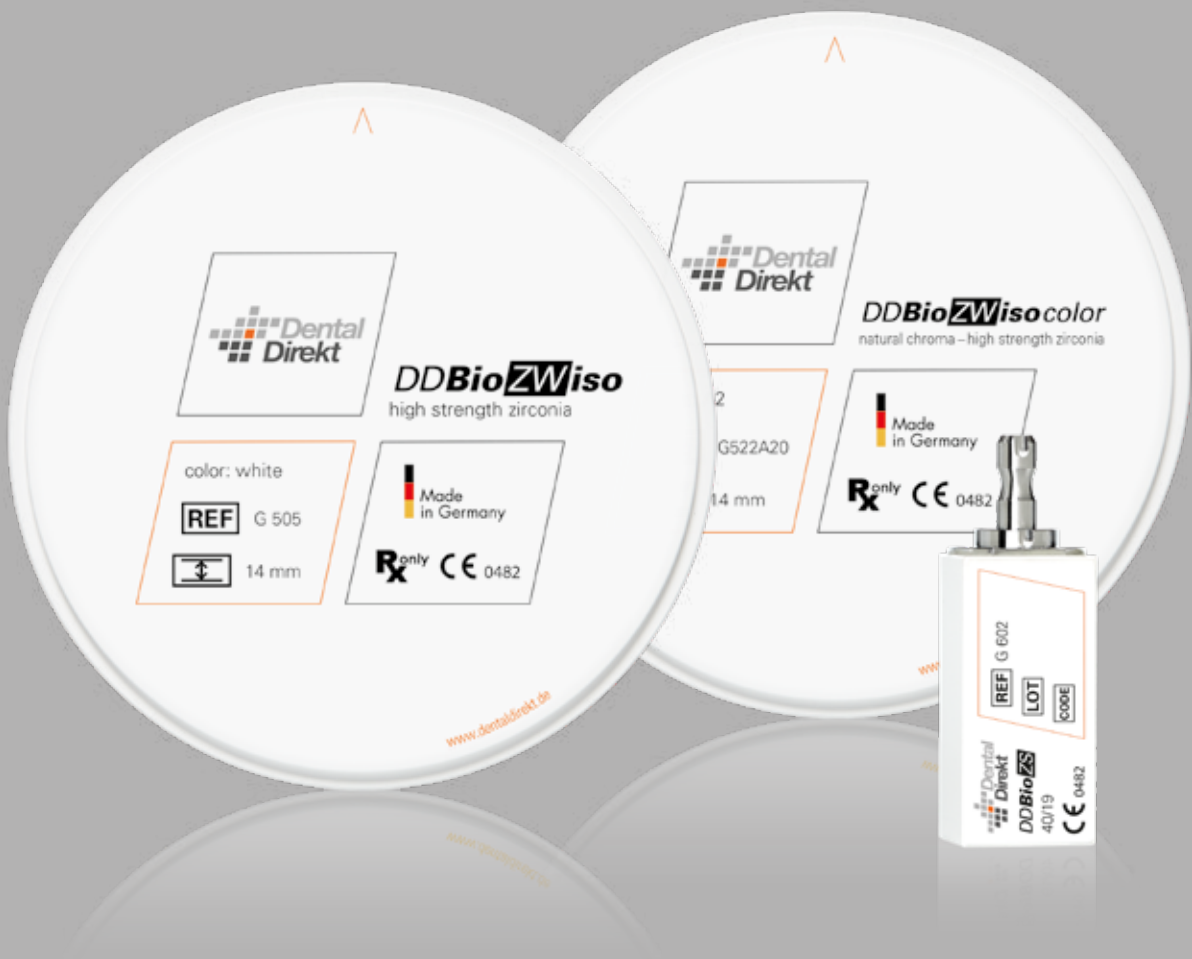


Measure	C1	C2	C3	C4	Price (euro/net)
98,5 x 10 mm	G 590.017.0	G 590.010.0	G 590.018.0	G 590.019.0	139,00
98,5 x 14 mm	G 592.017.0	G 592.010.0	G 592.018.0	G 592.019.0	159,00
98,5 x 18 mm	G 594.017.0	G 594.010.0	G 594.018.0	G 594.019.0	199,00
98,5 x 20 mm	G 595.017.0	G 595.010.0	G 595.018.0	G 595.019.0	214,00
98,5 x 25 mm	G 596.017.0	G 596.010.0	G 596.018.0	G 596.019.0	249,00



Measure	D2	D3	D4	Price (euro/net)
98,5 x 10 mm	G 590.020.0	G 590.011.0	G 590.021.0	139,00
98,5 x 14 mm	G 592.020.0	G 592.011.0	G 592.021.0	159,00
98,5 x 18 mm	G 594.020.0	G 594.011.0	G 594.021.0	199,00
98,5 x 20 mm	G 595.020.0	G 595.011.0	G 595.021.0	214,00
98,5 x 25 mm	G 596.020.0	G 596.011.0	G 596.021.0	249,00

DDBioZ



DDBioZWiso

high strength zirconia

perfectly suitable for

- Aesthetic veneering, crowns, bridges of any span range
- Implant superstructures
- Abutments



Technical data

Type	3Y-TZP-A
Classification	Class IIa according to MDD/MDR
Indication ISO 6872	Type II, class 5 – all dental constructions, all bridges ≥ 4 elements with max. 2 connected pontics
Color	White
Aesthetics	Opaque
Sintering temperature	1.450 °C
Bending strength	1.300 MPa (4 point test)
Fracture toughness	> 9 MPa \sqrt{m}
CAM system	Open systems for \varnothing 98,5 mm blanks
DD Coloring liquids	DD Pro Shade Z DD Basic Shade DD Art Elements

Measure	Order-no.	Price (euro/net)
98,5 x 10 mm	G 513	109,00
98,5 x 12 mm	G 526	129,00
98,5 x 14 mm	G 505	139,00
98,5 x 16 mm	G 527	159,00
98,5 x 18 mm	G 506	179,00
98,5 x 20 mm	G 507	189,00
98,5 x 25 mm	G 553	219,00



Consult instructions for use.

Not all products are available in every country.

DDBioZS

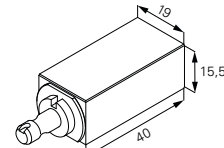
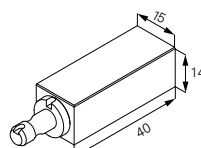
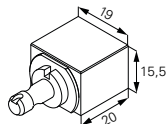
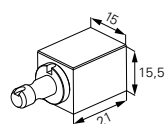
high strength zirconia

perfectly suitable for

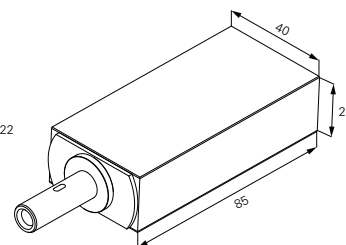
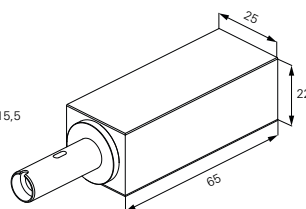
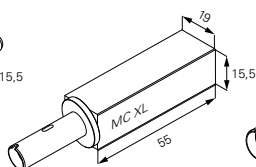
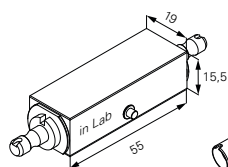
- Aesthetic veneering, crowns, bridges of any span range
- Implant superstructures
- Abutments

Technical data

Type	3Y-TZP-A
Classification	Class IIa according to MDD/MDR
Indication ISO 6872	Type II, class 5 – all dental constructions, all bridges ≥ 4 elements with max. 2 connected pontics
Color	White
Aesthetics	Opaque
Sintering temperature	1.450 °C
Bending strength	1.300 MPa (4 point test)
Fracture toughness	> 9 MPa√m
CAM system	Sirona inLab® and inLab® MC XL system
DD Coloring liquids	DD Pro Shade Z DD Basic Shade DD Art Elements



Article	DD Bio ZS 21/15	DD Bio ZS 20/19	DD Bio ZS 40/15	DD Bio ZS 40/19
Order-no.	G 603	G 600	G 601	G 602
Measure in mm	21 x 15 x 15,5	20 x 19 x 15,5	40 x 15 x 14	40 x 19 x 15,5
Item	25	24	10	10
Price (euro/net)	285,00	319,00	239,00	249,00



Article	DD Bio ZS 55/19 inLab	DD Bio ZS 55/19 MC XL	DD Bio ZS 65/25	DD Bio ZS 85/40
Order-no.	G 604	G 604.1	G 605	G 607
Measure in mm	55 x 19 x 15,5	55 x 19 x 15,5	65 x 25 x 22	85 x 40 x 22
Item	2	2	1	1
Price (euro/net)	99,00	99,00	89,00	189,00



Consult instructions for use.

Not all products are available in every country.

DDBioZWiso color

high strength zirconia

perfectly suitable for

- Aesthetic veneering, crowns, bridges of any span range
- Implant superstructures
- Abutments




Technical data

Type	3Y-TZP-A
Classification	Class IIa according to MDD/MDR
Indication ISO 6872	Type II, class 5 – all dental constructions, all bridges ≥ 4 elements with max. 2 connected pontics
Color	5 universal colors
Aesthetics	Opaque
Sintering temperatur	1.450 °C
Bending strength	1.450 MPa (3 point test)
Fracture toughness	> 9 MPa√m
CAM system	Open systems for Ø 98,5 mm blanks



Measure	500 A1 · A2	800 A3 · B3	1000 C2 · C3	1333 A3,5 · B4	2000 A4	Price (euro/net)
98,5 x 10 mm	G 520.500.0	G 520.800.0	G 520.1000.0	G 520.1333.0	G 520.2000.0	129,00
98,5 x 14 mm	G 522.500.0	G 522.800.0	G 522.1000.0	G 522.1333.0	G 522.2000.0	149,00
98,5 x 18 mm	G 524.500.0	G 524.800.0	G 524.1000.0	G 524.1333.0	G 524.2000.0	189,00
98,5 x 20 mm	G 525.500.0	G 525.800.0	G 525.1000.0	G 525.1333.0	G 525.2000.0	204,00
98,5 x 25 mm	G 526.500.0	G 526.800.0	G 526.1000.0	G 526.1333.0	G 526.2000.0	239,00

 Consult instructions for use.
Not all products are available in every country.

DDBioZWiso color

high strength zirconia
according to VITA® shades

perfectly suitable for

- Aesthetic veneering, crowns, bridges of any span range
- Implant superstructures
- Abutments

Technical data

Type	3Y-TZP-A
Classification	Class IIa according to MDD/MDR
Indication ISO 6872	Type II, class 5 – all dental constructions, all bridges ≥ 4 elements with max. 2 connected pontics
Color	Precolored acc. to VITA®
Aesthetics	Opaque
Sintering temperature	1.450 °C
Bending strength	1.450 MPa (3 point test)
Fracture toughness	> 9 MPa√m
CAM system	Open systems for Ø 98,5 mm blanks



Measure	A1	A2	A3	A3,5	Price (euro/net)
98,5 x 10 mm	G520A10	G520A20	G520A30	G520A350	129,00
98,5 x 14 mm	G522A10	G522A20	G522A30	G522A350	149,00
98,5 x 18 mm	G524A10	G524A20	G524A30	G524A350	189,00
98,5 x 20 mm	G525A10	G525A20	G525A30	G525A350	204,00
98,5 x 25 mm	G526A10	G526A20	G526A30	G526A350	239,00



Measure	B1	B2	C1	D2	Price (euro/net)
98,5 x 10 mm	G520B10	G520B20	G520C10	G520D20	129,00
98,5 x 14 mm	G522B10	G522B20	G522C10	G522D20	149,00
98,5 x 18 mm	G524B10	G524B20	G524C10	G524D20	189,00
98,5 x 20 mm	G525B10	G525B20	G525C10	G525D20	204,00
98,5 x 25 mm	G526B10	G526B20	G526C10	G526D20	239,00



Consult instructions for use.

Not all products are available in every country.

Coloring Liquids

02

Liquid Recommendation

Liquid recommendation exemplified
by the shade reference VITA® A2



DDBasicShade
Universal Dentine Liquid



DDBioZ



more grayish



DDBioZX²



more grayish



DDcubeONE®



more grayish



DDcubeX²®



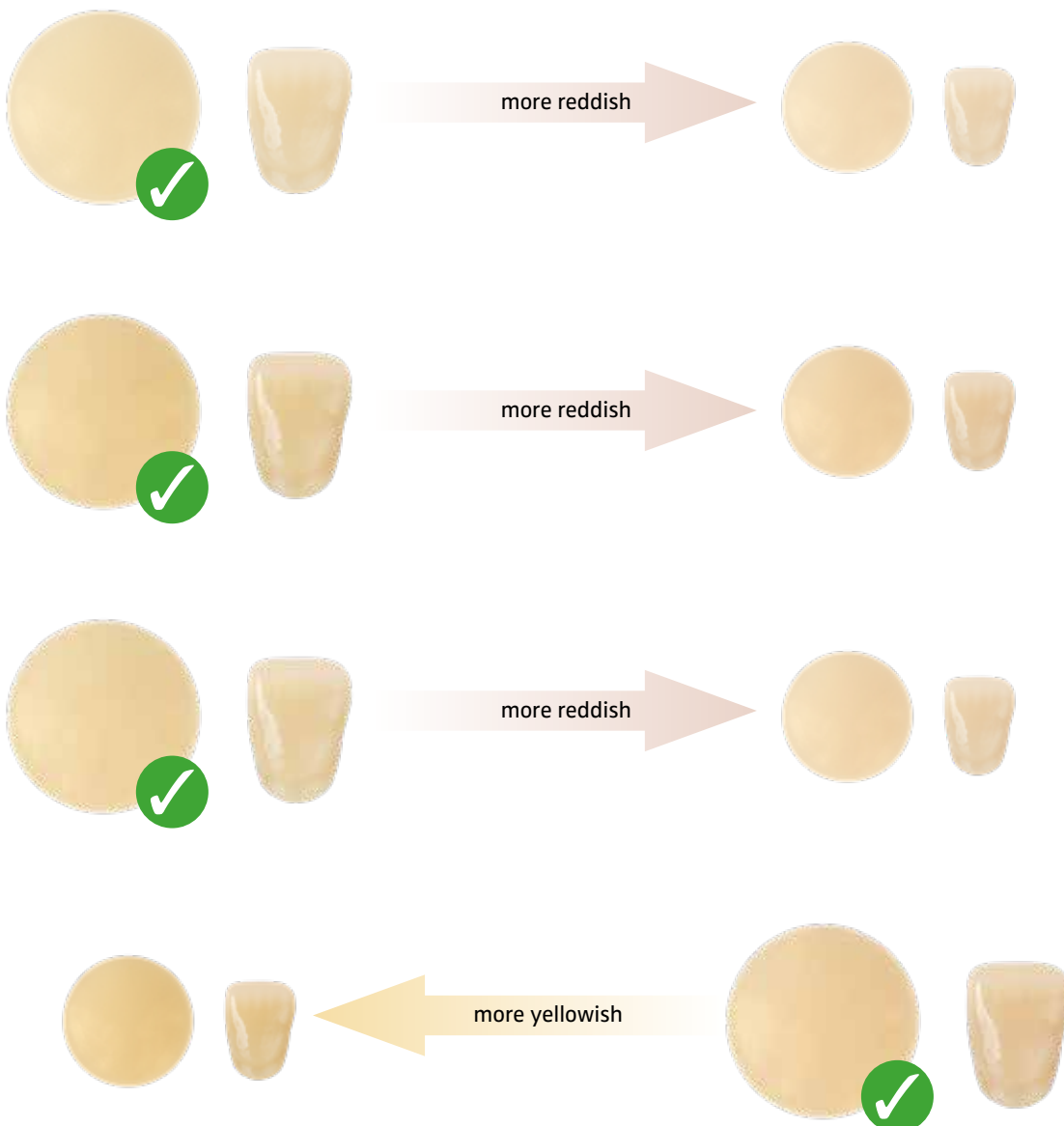
more grayish

Recommendation



Color concept: intensive chroma, higher gray value
Luminance: LESS brightness

DD recommendation: minimum layering (cut back),
full veneering, combination of both techniques



Color concept: less intensive chroma, warmer shade
Luminance: MORE brightness

DD recommendation: Further characterization: For monolithic crowns/bridges made of DD cubeX²® or DD cube ONE® an individual coloring (DD contrast® color and form concept) or minimal layering (cut back).
For constructions made of DD Bio ZX² or DD Bio Z a ceramic veneer.

DDBasicShade

Universal Dentine Liquid

Color concept	VITA® classic (dentine)
Chroma	Intensive chroma – higher gray value
Luminance	Less brightness



16 dentine colors according to VITA® and 3 bleach colors

Color according to VITA®	Order no. 30 ml	Order no. 100 ml
0M1	LBS300M1	LBS1000M1
0M2	LBS300M2	LBS1000M2
0M3	LBS300M3	LBS1000M3
A1	LBS30A1	LBS100A1
A2	LBS30A2	LBS100A2
A3	LBS30A3	LBS100A3
A3,5	LBS30A35	LBS100A35
A4	LBS30A4	LBS100A4
B1	LBS30B1	LBS100B1
B2	LBS30B2	LBS100B2
B3	LBS30B3	LBS100B3
B4	LBS30B4	LBS100B4
C1	LBS30C1	LBS100C1
C2	LBS30C2	LBS100C2
C3	LBS30C3	LBS100C3
C4	LBS30C4	LBS100C4
D2	LBS30D2	LBS100D2
D3	LBS30D3	LBS100D3
D4	LBS30D4	LBS100D4
Price (euro/net)	22,90	59,90

Recommended for:

- DD Bio Z (3Y-TZP-A) High Strength
- DD Bio ZX² (3Y-TZP-LA) High Translucent
- DD cube ONE® (4Y-TZP) High Translucent Plus
- DD cubeX²® (5Y-TZP) Super High Translucent

HS

HT

HT+

SHT

Recommended use:

- Minimal layering (cut back)
- Full veneering
- Combination of both techniques



Consult instructions for use.

Not all products are available in every country.

DDProShadeZ

Special Dentine Liquid

Color concept	VITA® classic (dentine)
Chroma	Less intensive chroma – warmer shade
Luminance	More brightness



16 dentine colors according to VITA® and 3 bleach colors

Color according to VITA®	Order no. 30 ml	Order no. 100 ml
0M1	LPSZ300M1	LPSZ1000M1
0M2	LPSZ300M2	LPSZ1000M2
0M3	LPSZ300M3	LPSZ1000M3
A1	LPSZ30A1	LPSZ100A1
A2	LPSZ30A2	LPSZ100A2
A3	LPSZ30A3	LPSZ100A3
A3,5	LPSZ30A35	LPSZ100A35
A4	LPSZ30A4	LPSZ100A4
B1	LPSZ30B1	LPSZ100B1
B2	LPSZ30B2	LPSZ100B2
B3	LPSZ30B3	LPSZ100B3
B4	LPSZ30B4	LPSZ100B4
C1	LPSZ30C1	LPSZ100C1
C2	LPSZ30C2	LPSZ100C2
C3	LPSZ30C3	LPSZ100C3
C4	LPSZ30C4	LPSZ100C4
D2	LPSZ30D2	LPSZ100D2
D3	LPSZ30D3	LPSZ100D3
D4	LPSZ30D4	LPSZ100D4
Price (euro/net)	22,90	59,90

Recommended for:

- DD Bio Z (3Y-TZP-A) High Strength
- DD Bio ZX² (3Y-TZP-LA) High Translucent
- DD cube ONE® (4Y-TZP) High Translucent Plus


HS

HT

HT+

Recommended use:

- Perfect basis for individual painting of monolithic crowns and bridges made of DD cube ONE® (HT+) (DD contrast® color and form concept by Andreas Nolte)
- Minimal layering (cut back)

 Consult instructions for use.
Not all products are available in every country.

DDProShade^C

Special Dentine Liquid

Color concept	VITA® classic (dentine)
Chroma	Less intensive chroma – warmer shade
Luminance	More brightness



16 dentine colors according to VITA® and 3 bleach colors

Color according to VITA®	Order no. 30 ml	Order no. 100 ml
0M1	LPSC300M1	LPSC1000M1
0M2	LPSC300M2	LPSC1000M2
0M3	LPSC300M3	LPSC1000M3
A1	LPSC30A1	LPSC100A1
A2	LPSC30A2	LPSC100A2
A3	LPSC30A3	LPSC100A3
A3,5	LPSC30A35	LPSC100A35
A4	LPSC30A4	LPSC100A4
B1	LPSC30B1	LPSC100B1
B2	LPSC30B2	LPSC100B2
B3	LPSC30B3	LPSC100B3
B4	LPSC30B4	LPSC100B4
C1	LPSC30C1	LPSC100C1
C2	LPSC30C2	LPSC100C2
C3	LPSC30C3	LPSC100C3
C4	LPSC30C4	LPSC100C4
D2	LPSC30D2	LPSC100D2
D3	LPSC30D3	LPSC100D3
D4	LPSC30D4	LPSC100D4
Price (euro/net)	22,90	59,90



Consult instructions for use.

Not all products are available in every country.

Recommended for:

- DD cubeX²® (5Y-TZP) Super High Translucent



Recommended use:

- Perfect basis for customized staining of monolithic crowns and bridges made of DD cube cubeX²® (SHT) (DD contrast® color and form concept by Andreas Nolte)
- Minimal layering (cut back)

DDArtElements

Recommended for:


■ DD Bio Z (3Y-TZP-A)	High Strength	HS
■ DD Bio ZX ² (3Y-TZP-LA)	High Translucent	HT
■ DD cube ONE® (4Y-TZP)	High Translucent Plus	HT+
■ DD cubeX ² ® (5Y-TZP)	Super High Translucent	SHT

To be used with all DD Dentine Liquids.

Effect colors

For individualisation, to shade the dentine colors, or simply for the characterization of e.g. fissures, incisal areas or gingival areas.

		
light pink	purple	blue
LAE30LP	LAE30P	LAE30B
		
yellow	orange	light brown
LAE30Y	LAE30O	LAE30LB
		
dark brown	light grey	dark grey
LAE30DB	LAE30LG	LAE30DG
		
graphite	30 ml	Price (euro/net)
LAE30G		59,90

 Consult instructions for use.
Not all products are available in every country.

Incisal

For occlusal and incisal individualisation.

Color		Order no. / 15 ml
SA1	for painting (0M3 · A1 · A2 · B1 · B2)	LAE15SA1
SA2	for painting (A3 · A3,5 · A4 · B3 · B4)	LAE15SA2
SC1	for painting (C1 · C2 · D2)	LAE15SC1
SC2	for painting (C3 · C4 · D3 · D4)	LAE15SC2
SO	for painting (0M1 · 0M2) for dipping (all dentine colors)	LAE15SO
SO Bright	for painting (0M1 · 0M2) for dipping (all dentine colors) developed specially for DD cube ONE®.	LAE15SOB
Price (euro/net)		14,90

Incisal SO / SO Bright

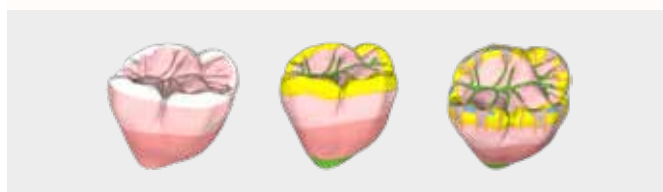
Optimized for efficient dipping technique.



SO Bright produces more intense brightness in the incisal area.
Recommended for use with DD cube ONE®.

Incisal SA / SC

Optimized for individual brush technique.



Vario

To brighten the dentine colors.

Article	Order no. / 30 ml
Variation liquid	LAE30V
Price (euro/net)	22,90

DDShadeConcept® sets



Coloring sets	Order no.	Content	Price (euro/net)
DD Basic Shade set	LBS001	16 dentine colors A1 – D4 á 30 ml 5 incisal colors SA1 – SO á 15 ml + 40 applicators	349,00
DD Pro Shade C set (Ideal for DD cubeX ² ®)	LPSC001	16 dentine colors A1 – D4 á 30 ml 5 incisal colors SA1 – SO á 15 ml + 40 applicators	349,00
DD Pro Shade Z set (Ideal for DD Bio Z, DD Bio ZX ² and DD cube ONE®)	LPSZ001	16 dentine colors A1 – D4 á 30 ml 5 incisal colors SA1 – SO á 15 ml + 40 applicators	349,00
DD Art Elements set	LAE001	5 incisal colors á 15 ml 10 effect colors á 30 ml 1 vario liquid á 30 ml + 40 applicators	549,00



Consult instructions for use.

Not all products are available in every country.

DD Incisal X

Translucency-increasing liquid

The liquid has been specially developed to "pimp" the incisal area of high-strength zirconium oxide restorations and thus ensure even more aesthetic results. DD Incisal X is available in two variants and offers you the greatest flexibility in individualizing your crown and bridge restorations. The application with the enclosed applicators simplifies handling and guarantees reproducible results.

In short: similarly beautiful to a veneer, but without the great effort.



Benefits:

- Two variants for creative working
- Better aesthetics in the incisal area for high-strength, opaque materials
- Aesthetic enhancement without the expense of a veneer
- Easy handling and reproducible results due to coordinated systematics
- Can be combined with DD Pro Shade Z and DD Art Elements

DD Incisal X – X0

Pure translucency-increasing liquid

Add the finishing touch to your restoration. Create contrast between the dentin and the incisal edge or perfect your individualization in combination with DD Art Elements.

Recommended for:

- DD cube ONE®
- DD cube ONE® ML
- DD Bio ZX²
- DD Bio ZX² color

Content:

- 1 watch glass
- 10 applicators
- 5 ml DD Incisal X-Liquid (variant X0 or X2) in pipette bottle
- 16-language compact manual

DD Incisal X – X2

Translucency-increasing liquid with colouring oxides

Create with minimal effort a real and optical translucency increase through bluish/greyish/violet color effect.

Article	Order No. / 5 ml	Price (euro/net)
DD Incisal X – X0	LIX05X0	59,90
DD Incisal X – X2	LIX05X2	59,90

Aesthetic Finish

03

DDcontrast®



















color and form concept by *A. Wille*


DD contrast®, the color and texture system from Dental Direkt, gives full monolithic restorations optimum color dynamics, vivid depth effect and various intensities of fluorescence. It creates a wonderful symbiosis with the color and light systems of our monolithic zirconium oxides.



DD contrast® color:

- Body, mamelon and effect colors to create characteristic contrasts of light and dark, warm and cold.
- Creation of natural looking tooth effects such as translucency and mamelons.
- With »fissure« the System contains a marking color.

Body colors		Order-no. / 4 g	FG	Price (euro/net)
	dentin A	DDCCDA	F+	42,00
	dentin B	DDCCDB	F+	42,00
	dentin C	DDCCDC	F+	42,00
	dentin D	DDCCDD	F+	42,00
Mamelon colors				
	mamelon maize	DDCCMM	F+	42,00
	mamelon corn	DDCCMC	F+	42,00
	mamelon pink	DDCCMP	F+	42,00
Effect colors				
	white	DDCCWH	F++	42,00
	vanilla	DDCCVA	F+	42,00
	halo	DDCCHA	F+	42,00
	cervical	DDCCCE	F	42,00
	orange	DDCCOR	—	42,00
	traces	DDCCTR	—	42,00
	fissure (marking)	DDCCFI	—	42,00
	light gray	DDCCLG	—	42,00
	dark gray	DDCCDG	—	42,00
	violet	DDCCVI	—	42,00
	blue	DDCCBL	—	42,00

 Consult instructions for use.
Not all products are available in every country.



DD contrast® texture:

- Individual modeling of surface structures.
- Vivid depth effect and color intensity on monolithic crowns starting with a minimum layer thickness of 0.1 mm.
- Natural color effect and light dynamics are achieved by a fine feldspar structure.
- Special dentines for increasing the colour intensity, of the brightness value and opacity in the labial and buccal area.
- Can be used without additional glaze firing.

Enamel masses	Order-no. / 4 g	FG	Price (euro/net)
enamel 59	DDCTE59	F+	47,00
enamel bleach	DDCTEB	F++	47,00
transpa warm fluor	DDCTTWF	F++	47,00
Intensive enamel masses			
retzius	DDCTRE	F	47,00
opal blue	DDCTOB	–	47,00
illusion	DDCTIL	–	47,00
Dentine			
bleach dentin	DDCTBD	F++	47,00
chroma dentin A1	DDCTCDA1	F++	47,00
chroma dentin B4	DDCTCDB4	F+	47,00
Special textures			
mask	DDCTMA	F	47,00
caninus	DDCTCA	F	47,00

Fluorescence Grade (FG): **F** **F+** **F++**

DD contrast® color, DD contrast texture® and DD contrast glaze® have various intensity of fluorescence. For a better orientation we have designated the level of intensity as follows: F = low fluorescence, F+ = high fluorescence and F++ = very high fluorescence.



Consult instructions for use.

Not all products are available in every country.

DD contrast® glaze:

DD contrast® glaze clear (non-fluorescent):

- To seal the surface.
- Glaze with a slight opacity/gray shimmer. Especially advantageous for elderly patients whose teeth are more translucent.

DD contrast® glaze clear fluor (fluorescent):

- To seal the surface.
- Especially in the body area you can achieve the necessary fluorescence – just like with a natural tooth.

Glazes	Order-no. / 4 g	FG	Price (euro/net)
glaze clear	DDCGC	—	39,00
glaze clear fluor	DDCGCF	F++	39,00

DD contrast® liquid:

The **DD contrast® standard liquid** can only be used for diluting DD contrast® colors. With the liquid you can adjust the thickness of the transparent layer.

The **DD contrast® texture liquid** should only be used for DD contrast® texture in order to maintain the special consistency and modeling properties of the material.


Liquids	Order-no. / 30 ml	Price (euro/net)
standard liquid	DDCSLI	11,60
texture liquid	DDCTLI	11,60

DD contrast® firing paste – the ultimate ceramic firing paste for object fixation

- Stabilizes even difficult ceramic works during the firing process.
- Zero clean-up is required – just a blast of compressed air is sufficient.
- No annoying scraping out or sandblasting after the firing process.
- No drying time is required.



Article	Order-no.	Price (euro/net)
firing paste	DDCFP	19,90

 Consult instructions for use.
Not all products are available in every country.

DDcontrast®-Set



Article	Order-no.	Content	Price (euro/net)
DD contrast® set	DDCSET	18x DD contrast® color, à 4 g 11x DD contrast® texture, à 4 g 1x DD contrast® glaze clear, 4 g 1x DD contrast® glaze clear fluor, 4 g 1x DD contrast® standard liquid, 30 ml 1x DD contrast® texture liquid, 30 ml	1.290,00



Consult instructions for use.
Not all products are available in every country.

panther

The Premium-Finish



panther starter kit	
Order-no.	TCPSET104/01
Item	1
Price (euro/net)	210,00

TCP M	panther Flame 055	panther Lense 260	panther Wheel 170	panther Lense 150
Order-no.	TCP100104MSW4Z	TCP140104M	TCP158104MSW4Z	TCP541104MSW4Z
Measure (mm)	Ø 5,5 x 18	Ø 26 x 2	Ø 17 x 2,4	Ø 15 x 1
Shaft	104-HP	104-HP	104-HP	104-HP
Optimal / maximum (min. -1)	12.000 / 20.000	8.000 / 20.000	8.000 / 20.000	8.000 / 20.000
Item	3 pieces	1 piece	3 pieces	3 pieces
Price (euro/net)	22,80	32,90	60,60	66,90

TCP XF	panther Flame 055	panther Lense 260	panther Wheel 170	panther Lense 150
Order-no.	TCP100104XFSW4Z	TCP140104XF	TCP158104XFSW4Z	TCP541104XFSW4Z
Measure (mm)	Ø 5,5 x 18	Ø 26 x 2	Ø 17 x 2,4	Ø 15 x 1
Shaft	104-HP	104-HP	104-HP	104-HP
Optimal / maximum (min. -1)	12.000 / 20.000	8.000 / 20.000	8.000 / 20.000	8.000 / 20.000
Item	3 pieces	1 piece	3 pieces	3 pieces
Price (euro/net)	22,80	32,90	60,60	66,90

Accessories	panther Diamond polishing paste	Goat's hair brush 17 mm	Goat's hair brush 19 mm
Order-no.	TCPASTE01/20	TCP417104GR16	TCP419104GR16
Measure (mm)	—	Ø 17	Ø 19
Shaft	—	104-HP	104-HP
Optimal / maximum (min. -1)	—	12.000 / 15.000	12.000 / 15.000
Item	20 g	10 pieces	10 pieces
Price (euro/net)	72,00	12,50	12,50

High Performance Polymers

044

DDBioSplint^{PHI}

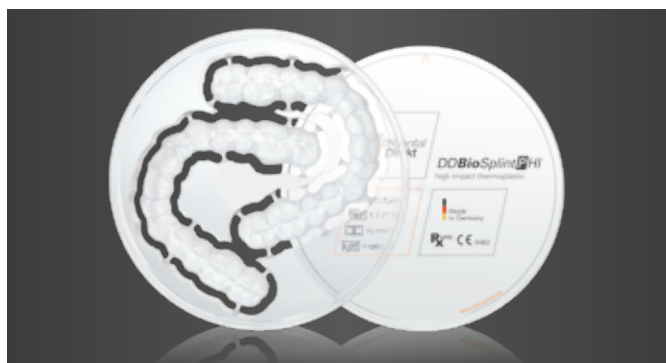
high impact thermoplastic

PMMA for occlusal splints

DD Bio Splint P HI blanks consist of thermoplastic acrylic polymer based on polymethylmethacrylate (PMMA), with no toxic or allergenic materials. Using CAD/CAM technology, you will achieve a perfect fit with no re-machining. Thanks to our manufacturing process, the material is absolutely free of distortion and strain for a perfect fit.

Your benefits:

- Biocompatible – medical thermoplastic, no chemoplastic!
- Industrially polymerised – minimal residual monomer content
- High fracture resistance and long-term stability (bruxism treatment)
- Lowest water absorption – long-term stability of the fit
- Good polishing properties – smooth surfaces are less susceptible to discoloration and plaque deposits, which at the same time minimizes the risk of inflammation.



Technical data

Material	100% Polymethyl methacrylate (PMMA)
Classification	Class IIa according to MDD/MDR
Indication	Bite guard splint, therapeutic splints, bite regulators (Due to its properties, the material is indicated for the oral cavity up to 12 month.)
Color	clear
Flexural strength ISO 178	92 MPa
Charpy impact strength +23°C ISO 179/1eU	45 kJ/m ²
Density ISO 1183	1,17 g/cm ³
Water absorption ISO 20795-1	0,02 µg/mm ³
Solubility ISO 20795-1	0,0 µg/mm ³
Residual monomer ISO 20795-1	< 0,7 %
CAM system	open systems for Ø 98,5 mm blanks

Measure	Order-no.	Price (euro/net)
98,5 x 15 mm	K40115	29,00
98,5 x 20 mm	K40120	35,00
98,5 x 25 mm	K40125	40,00
98,5 x 30 mm	K40130	49,00



Consult instructions for use.

Not all products are available in every country.

DDBioSplint^C

innovative polycarbonate

Polycarbonate for occlusal splints

DD Bio Splint C blanks consist of a biocompatible High-Tech-Polymer based on a medical polycarbonate. We have developed this material innovation as the ideal material for CAM-manufactured bite splints. Using CAD/CAM technology, you will achieve a perfect fit with no re-machining. Thanks to our manufacturing process, the material is absolutely free of distortion and strain for a perfect fit.

Your benefits:

- Biocompatible – medical thermoplastic, no chemoplastic!
- Industrially polymerised – absolutely low residual monomer content
- High fracture resistance and continuous flexural load (treatment of bruxism)
- Plaque resistant – lowest water absorption – dense structure
- Good polishing properties
- Shatterproof with added elasticity, (high) resilience
- Suitable for hot steam sterilization at 121 °C



Technical data

Material	100% Polycarbonate (PC)
Classification	Class I according to MDD/MDR
Indication	Bite guard splint, therapeutic splints, bite regulators, drilling templates (Due to its properties, the material is indicated for the oral cavity up to 30 days.)
Farbe	clear/slightly bluish
Flexural strength ISO 20795-1	≥ 98 MPa
Flexural modulus ISO 20795-1	> 2.300 MPa
Water absorption ISO 20795-1	3,6 µg/mm ³
Solubility ISO 20795-1	0,2 µg/mm ³
residual monomer content ISO 20795-1	≤ 0,0015 %
CAM system	open systems for Ø 98,5 mm blanks

Measure	Order-no.	Price (euro/net)
98,5 x 15 mm	K 2.01.15	39,00
98,5 x 20 mm	K 2.01.20	45,00



Consult instructions for use.

Not all products are available in every country.

DDBioSplintFLEX

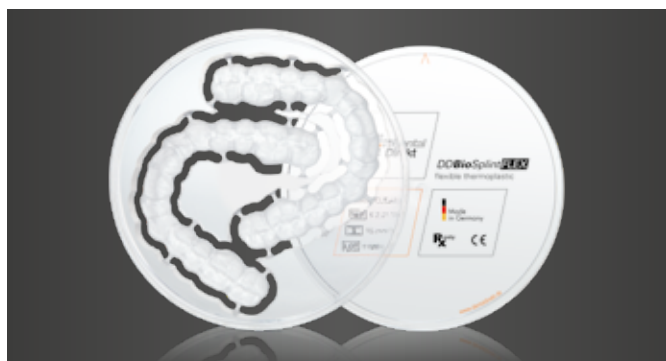
flexible thermoplastic

PET-G for bite splints

The DD Bio Splint FLEX blanks are made of a thermoplastic copolymer based on a medical grade PET-G. The material is characterized by high flexibility and simultaneously high impact strength. Free of toxic and allergenic substances, DD Bio Splint FLEX is ideal for patients with intolerances.

Your benefits:


- Highly flexible
- No risk of fracture
- Improved patient comfort
- Very good polishability
- Bonding to conventional polymers possible



Technical data

Material	Polyethyleneterephthalat-Glycol (PET-G)
Classification	Class I according to MDD/MDR
Indication	Bite splints, therapeutic splints of all kinds, bleaching splints (Due to its properties the material is indicated for up to 30 days in the oral cavity)
Flexural strength ISO 20795-1	clear
Flexural modulus ISO 20795-1	$\geq 58 \text{ MPa}$
Flexural strength ISO 20795-1	$\geq 1.370 \text{ MPa}$
Water absorption ISO 20795-1	$\geq 3 \text{ MPa m}^{1/2}$
Solubility ISO 20795-1	$6 \mu\text{g/mm}^3$
residual monomer content ISO 20795-1	$< 0,25 \mu\text{g/mm}^3$
CAM system	open systems for $\varnothing 98,5 \text{ mm}$ blanks

Measure	Order-no.	Price (euro/net)
98,5 x 20 mm	K60120	55,00

 Consult instructions for use.
Not all products are available in every country.

DDtempMED

high translucent polymers

Acrylic Polymer

DD temp MED blanks consist of thermoplastic acrylic polymer based on polymethyl methacrylate (PMMA), with no toxic or allergenic materials.

Your benefits:

- Biocompatible – medical polymer material
- Industrially polymerised – absolutely low residual monomer content
- High fracture resistance and continuous flexural load
- Plaque resistant – lowest water absorption – dense structure
- Good polishing properties

Technical data

Material Polymethyl methacrylate (PMMA)

Classification Class IIa according to MDD/MDR

Indication pre-colored dental milling blanks for the production of temporary crowns and bridges (Due to its properties, the material is indicated for the oral cavity up to 12 month.)

Flexural strength
ISO 20795-1 78 – 90 MPa

Flexural modulus
ISO 20795-1 2.300 – 2.988 MPa

Water absorption
ISO 20795-1 19 – 25 µg/mm³

Solubility
ISO 20795-1 0,3 – 0,7 µg/mm³

Residual monomer content ISO 20795-1 < 2 %

CAM system open systems for Ø 98,5 mm blanks

Chemical Composition [Weight %]

Polymethyl methacrylate (PMMA) 99 – 99,8

Coloring pigments 0,2 – 1



Measure	Bleach	A1	A2	A3	A3,5	B2	C2	D3	Price (euro/net)
98,5 x 15 mm	–	K 1.16.15	K 1.10.15	K 1.11.15	K 1.12.15	K 1.13.15	K 1.15.15	K 1.14.15	29,00
98,5 x 16 mm	K42216	–	–	–	–	–	–	–	32,00
98,5 x 20 mm	K42220	K 1.16.20	K 1.10.20	K 1.11.20	K 1.12.20	K 1.13.20	K 1.15.20	K 1.14.20	35,00
98,5 x 25 mm	K42225	–	–	–	–	–	–	–	39,00



Consult instructions for use.

Not all products are available in every country.

DDpolyX^{ML}

multilayer – natural colored polymers

Acrylic Polymer

DD poly X ML blanks consist of multilayer acrylic polymer based on polymethyl methacrylate (PMMA) without toxic or allergenic materials (according to ISO 10993-5).

Your benefits:

- 5 layers polymerized – very natural aesthetic effect
- Biocompatible – medical polymer material
- Industrially polymerised – low residual monomer content
- High fracture resistance and continuous flexural load
- Plaque resistant – low water absorption – dense structure
- Good polishing properties and abrasion resistance



Technical data


Material	Polymethyl methacrylate (PMMA)
Classification	Class IIa according to MDD/MDR
Indication	suitable for making removable or temporary dental structures such as crowns and bridges (For temporary restorations, the material is indicated for the oral cavity up to 12 month.)
Flexural strength ISO 10477	90 MPa
Flexural modulus ISO 20795-1	2.300 MPa
Water absorption ISO 10477	25 µg/mm ³
Solubility ISO 10477	0,0 µg/mm ³
residual monomer content ISO 20795-1	< 2 %
CAM system	open systems for Ø 98,5 mm blanks

Chemical Composition [Weight %]

Polymethyl methacrylate (PMMA)	> 99
Coloring pigments	< 1



Measure	A1	A2	A3	B0	B3	C2	Price (euro/net)
98,5 x 16 mm	KML0116	KML0216	KML0316	KML0416	KML0516	KML0616	69,00
98,5 x 20 mm	KML0120	KML0220	KML0320	KML0420	KML0520	KML0620	75,00

 Consult instructions for use.
Not all products are available in every country.

DDbase^PHI

high impact thermoplastic

PMMA for digital denture bases

DD base P HI is based on the raw material of our proven DD Bio Splint P HI, a thermoplastic acrylic polymer based on polymethylmethacrylate (PMMA). Free of toxic and allergenic substances, the material is ideally suited for the production of digital denture bases. Our manufacturing process makes the material quick and easy to work with and guarantees a perfect fit of the denture base.

Your benefits:

- Milling times significantly reduced
- Increased tool life
- Very good bond to denture teeth
- Available in four colors



Technical data

Material	100% Polymethyl methacrylate (PMMA) + dyes
Classification	Class IIa according to MDD/MDR
Indication	Suitable for the fabrication of digital complete and partial dentures (Due to the properties, the material is indicated for ≤ 10 years of use in the oral cavity).
Flexural strength ISO 20795-1	65 MPa
Flexural modulus ISO 20795-1	2.030 MPa
Flexural strength ISO 20795-1	2,6 µg/mm ^{1/2}
Water absorption ISO 20795-1	24 µg/mm ³
Solubility ISO 20795-1	0,3 µg/mm ³
residual monomer content ISO 20795-1	< 0,5 %
CAM system	open systems for Ø 98,5 mm blanks



Measure	light pink	pink	sun	rouge	Price (euro/net)
98,5 x 30 mm	K50230	K50130	K50330	K50430	69,00



Consult instructions for use.

Not all products are available in every country.

DDpeekMED

the polymer steel

Medical PEEK

DD peek MED is the ideal combination of biocompatibility and ultimate strength.

Polyether ether ketone (PEEK) has a modulus of elasticity similar to human bone and is thus extremely wear-resistant. These attributes have made it a highly sought-after material in surgical endoprosthetics. Compared with titanium implants, stress peaks at the interface to the bones are reduced. Dental constructions also benefit from this property. This reduces the load on screw and adhesive bonds of the dental prosthesis as well. An ideal material for heavily load-bearing indications. Its total biocompatibility underscores the material through its inert property against body fluids.

Your benefits:

- Monomer-free
- Extremely loadable and wear-resistant
- Low density – very light
- Suitable for allergy patients
- Outstanding sliding qualities (telescopes)

Technical data

Material	Polyether ether ketone (PEEK)
Classification	Class IIa according to MDD/MDR
Indication	For the manufacture of fixed or removable dental framework constructions for long-term use. e.g. abutments and cervical gingival formers, bar constructions, tertiary constructions, telescope crowns, transversal links (due to its properties, the material is indicated for permanent use in the oral cavity)
Flexural strength* ISO 20795-1	≥ 155 MPa
Flexural modulus* ISO 20795-1	≥ 3,8 GPa
Density* ISO 1183	1,5 g/cm ³
Water absorption* ISO 20795-1	0,0 µg/mm ³
Solubility* ISO 20795-1	0,0 µg/mm ³
CAM system	open systems for Ø 98,5 mm blanks

*Value determination based on DD peek MED natural

Chemical Composition [Weight %]

	natural	white	dentine	gingiva
Polyether ether ketone (PEEK)	≥ 99,99	≥ 80	≥ 80	> 90
Titanium oxide	–	< 20	< 20	< 5
Further Additives	< 0,01	< 0,1	< 1	< 1



Measure	white	dentine	natural	gingiva	Price (euro/net)
98,5 x 14 mm	K 3.01.14	K 3.02.14	K 3.03.14	K 3.04.14	189,00
98,5 x 18 mm	K 3.01.18	K 3.02.18	K 3.03.18	K 3.04.18	229,00
98,5 x 23 mm	K 3.01.23	K 3.02.23	K 3.03.23	K 3.04.23	279,00



Consult instructions for use.

Not all products are available in every country.

More Materials

05

DDBioCW

Milling blank based on CoCr

The DD Bio CW Blanks provide a high level of working safety and guarantees reliably good quality. The DD Bio CW blank is resistant to corrosion, biocompatible and free of nickel and beryllium. Outstanding aesthetic results can be achieved by a veneering with a material-specific veneering ceramic. The adherence oxide formers provide an optimal bond between metal and ceramic.

The DD Bio CW blank has been treated with a special heat treatment, which makes the alloy easy to machine and gives it outstanding properties due to a uniform microstructure.



Technical data

Density	8,8 g/cm ³
E modulus	250 GPa
CTE (25 – 500°C)	14,4 10 ⁻⁶ K ⁻¹
Vickers hardness	285 HV10
Elongation at break	9 %
CAM system	open systems for Ø 98,5 mm blanks

Chemical composition [Weight %]

Co	63
Cr	29
Mo	6
Nb, Si, Mn, Fe	< 1

Measure	Order-no.	Price (euro/net)
98,5 x 8 mm	G 900	159,00
98,5 x 10 mm	G 901	179,00
98,5 x 12 mm	G 902	199,00
98,5 x 13,5 mm	G 903	219,00
98,5 x 15 mm	G 904	229,00
98,5 x 18 mm	G 905	259,00



Consult instructions for use.

Not all products are available in every country.

DDcamWAX

Wax for casting technique

Synthetic wax blanks utilised for the production of combustible wax frameworks that leave no residue. DD CAM wax blanks are distinguished by excellent milling properties and form a fine chip during the machining that does not clog milling cutters (non-medical product).



Specification			
CAM system	open systems for Ø 98,5 mm blanks		
Measure	Order-no.	Color	Price (euro/net)
98,5 x 20 mm	G 529	gray	29,00

DDcalibrationdisc

The DD calibration disc made of Polyurethane is used to calibrate your milling machine. After milling a special calibration body, you measure them and enter these values into the program. The milling machine will guide you through the calibration process step by step (non-medical product).



Specification			
CAM system	open systems for Ø 98,5 mm blanks		
Measure	Order-no.	Color	Price (euro/net)
98,5 x 15 mm	G 944	brown	19,90



Consult instructions for use.

Not all products are available in every country.

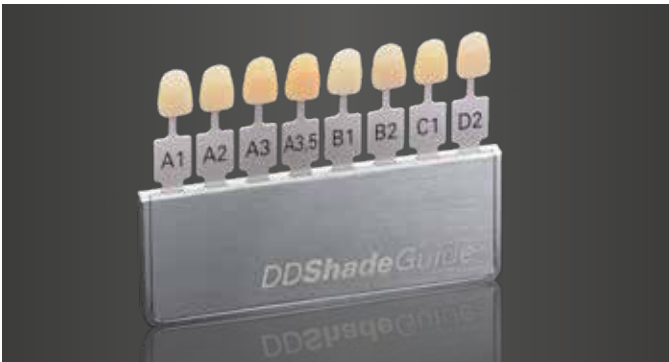
Accessories

06

DDShadeGuide

Make your own DD Shade Guide

Use the DD Shade Guide to create your own individual and practice-oriented color key, which is tailored to your own workflow and the zirconium oxides you use. In this way, the tooth shade is determined directly with the respective restoration material. This ensures a much better expectation of the shade effect and improves the reproducibility of the same. This minimizes the risk of a prosthetic failure due to incorrect shade taking.



Example: DD Shade Guide (set of 8 colors) with DD Bio ZW iso color

Your benefits:

- Shade guide made of the zirconia material of your choice
- 100 % reproducibility
- no transfer errors during color matching due to your own, individual color key

Set content:



Sticks and fixation clips
(number according to colors)




DD Shade Guide holder
(Set of 8 or 16)



Stl. data record on USB stick

DD Shade Guide	Order-no.	Price (euro/net)
Set of 8	Z 017	39,00
Set of 16	Z 016	59,00

 Consult instructions for use.
Not all products are available in every country.

DDphoeniX

reviving cleaning powder

Despite careful consideration of all important aspects of the laboratory process, discoloration and contamination of the objects may occur. A frequent reason for this are oxidic from the heating elements and their deposition in the furnace chamber.

Due to its special granulation, the DD phoeniX cleaning powder has a very reactive surface, which attracts the oxides in the furnace chamber and binds them permanently. Thus supports efficiently the cleaning process.

Your benefits:


- No molybdenum-caused green discoloration of the sintered objects
- Binds the contaminations from the furnace atmosphere and supports the cleaning
- Regular use increases the color consistency and reproducibility of your results



Important note:

Among the high-temperature furnaces for dental use mainly furnaces with heating elements made of molybdenum disilicide (MoSi_2) are affected by oxidic precipitation and discoloration. The sintering furnaces available from Dental Direkt heat with siliciumcarbide heating elements (SiC). Discoloration or contamination are not caused by SiC heating elements.

Article	Order-no.	Price (euro/net)
DD phoeniX bottle à 200 g	Z 010	69,00

 Consult instructions for use.
Not all products are available in every country.

DDSolidLink

Universal dual-curing composite based luting for intra and extraoral use

The DD Solid Link is a permanent luting solution for all common dental materials. Due to the reliable and precise luting is the fixation guaranteed. DD Solid Link forms the link between the sub- and suprastructures.

Your benefits

- permanent fixation for the common dental materials
- universal solution, for intra- and extraoral usage
- highly opaque masking properties for discolored or titanium bases
- Working time approx. 2 min.
- Setting time extraoral (23 °C) approx. 7 min.
- Setting time intraoral (37 °C) approx. 4 min.

Three shades for the perfect color matching

The DD Solid Link is available in two highly opaque (white/high opaque and dentine/high opaque) colors and additionally in a translucent shade.



Technical data

Classification	Class IIa according to MDD
Indication	<p>Permanent extra- and intraoral luting for suprastructures (incl. mesostructures) made of metal, ceramic, zirconium dioxide and polymers (composite, hybrid-ceramic or PMMA)</p> <ul style="list-style-type: none"> • Prefabricated adhesive/titanium bases (only extraorally) • Customised titanium and zirconium dioxide abutments (extra- and intraorally) • Tooth substance
Chemical composition (in descending order according to content)	methacrylate, benzoyl peroxide and amines
3-Point flexural strength* ISO 4049	119 MPa
Shear Bond strength on zirconium dioxide** ISO/TS 29022	24.4 MPa
Shear Bond strength on titanium** ISO/TS 29022	25.1 MPa
Shear Bond strength on lithium disilicate** ISO/TS 29022	24.4 MPa

* after 24 h storage at 23° C

** with DD Uni Bond

Luting composite

Article	Order-no. / 10 g	Price (euro/net)
DD Solid Link translucent	DDSLCT	99,00
DD Solid Link dentine high opaque	DDSLCD	99,00
DD Solid Link white high opaque	DDSLCW	99,00



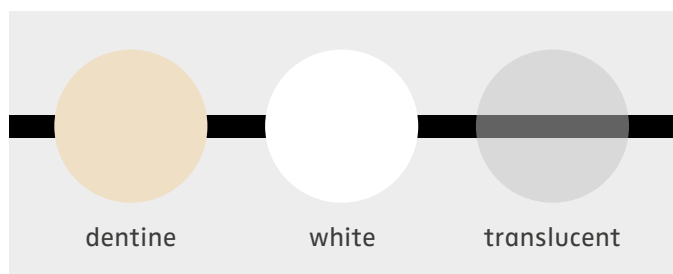
Consult instructions for use.

Not all products are available in every country.

DDSolidLinkTry-In

For the precise shade matching

In order to achieve a perfect shade matching there are different Try-In Pastes to use in advance. It gives the possibility for highly aesthetic restorations to check the shades before the permanent fixation. Afterwards the pastes are easy to remove simply just with water.



Technical data

Classification	Class I according to MDD
Indication	Try-In Paste for shade matching
Chemical composition	methacrylate, benzoyl peroxide and amines

Try-In

Article	Order-no. / 2,5 g	Price (euro/net)
DD Solid Link Try-In translucent	DDSLTIT	34,90
DD Solid Link Try-In dentine high opaque	DDSLTID	34,90
DD Solid Link Try-In white high opaque	DDSLTIW	34,90



Consult instructions for use.

Not all products are available in every country.

DDUniBond

Bonding agent for ceramics, metal and composite

The one-component DD Uni Bond coupling agent provide a durable adhesive bonding between indirect restorations and DD Solid Link.

Your benefits

- Creates optimal conditions for the permanent link
- Easy to use – no mixing necessary



Technical data

Classification	Class IIa according to MDD
Indication	The DD Uni Bond is used as a coupling agent to achieve an optimal chemical bond between the indirect restorations made of silicate ceramics, aluminium oxide, zirconium dioxide, metal or composite, as well as glass fibre-reinforced composite posts on the one side and methacrylate-based luting composites on the other side
Chemical composition	Organic acid, 3-methacryloxy-propyltrimethoxysilane and acetone

Article	Order-no. / 5 ml	Price (euro/net)
DD Uni Bond	DDSLUB	69,00



Consult instructions for use.

Not all products are available in every country.

DDUniBondD

Bonding agent for the tooth substance

The DD Uni Bond D is a dual-curing, self-etching nano-composites reinforced bond for creating a durable bonding between the tooth substance and DD Solid Link.

The DD Uni Bond D consists of 2 components.

Your benefits

- Chemical bonding for areas where is light-curing not possible
- Eliminates the need for a separate etching step yet still achieves the same adhesive properties as total-etch bonds
- Tolerates residual moisture
- Durable marginal fitting



Technical data

Classification	Class IIa according to MDD
Indication	<p>Direct self-curing or dual-curing composite restorations and core build-ups</p> <p>Direct light-curing composite/ compomer/Ormocer®-based restorations</p> <p>Fixing of root pins/posts with dual-curing or self-curing composite cements</p> <p>Indirect restorations; when using dual-curing/self-curing composite cements for bonding of inlays, onlays, crowns and bridges</p>
Chemical composition	Organic acids, Bis-GMA, HEMA, TMPTMA, campherchinon, amines (DABE), BHT, catalysts, fluoride and ethanol.

Article	Order-no. / 2 x 4 ml	Price (euro/net)
DD Uni Bond D	DDSLUBD	109,00



Consult instructions for use.

Not all products are available in every country.

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CLOSE TO YOU

