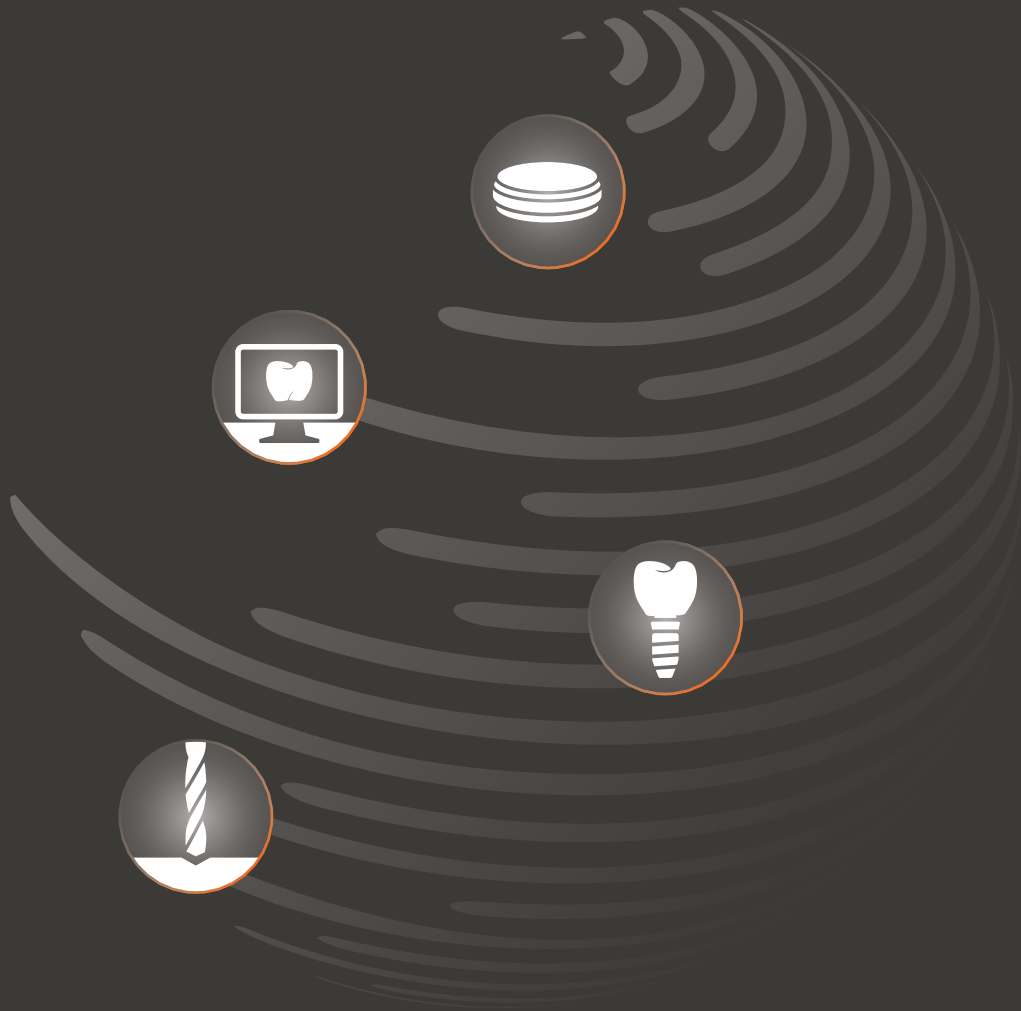




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Materials

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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 ZrO₂ 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 ₂ O ₃	≥ 99,0	≥ 99,0	≥ 99,0	≥ 99,0
Y ₂ O ₃	< 6	< 6	< 8	< 10
Al ₂ O ₃	< 0,5	≤ 0,15	< 0,15	≤ 0,01
Other oxides	< 1	< 1	< 1	< 1



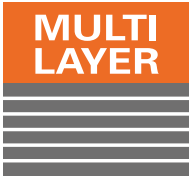









	HS	HT	HT+	SHT
	DDBioZcolor 3Y-TZP-A	DDBioZX²color 3Y-TZP-LA	DDcubeONE[®]ML 4Y-TZP	DDcubeX²[®]ML 5Y-TZP
Color method Industrial precolored blanks	Multi Additive Technology [®]	Multi Additive Technology [®]	Multi Additive Technology [®]	Multi Additive Technology [®]
Additive	Fe ₂ O ₃ Er ₂ O ₃ MnO ₂	Fe 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 10 VITA [®] shades + 1 Bleach shade	in 10 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[®] colorscale, while maintaining the natural translucency of the zirconiamaterial.



	 SHT Super High Translucent	 HT+ High Translucent Plus
	DDcubeX²ML 	DDcubeONE^{ML} 
	10 VITA®- + 1 Bleach shade	10 VITA®- + 1 Bleach shade
		
	DDcubeX² 	DDcubeONE 
Dentine Liquids 	DDProShade  DDBasicShade	DDProShade  DDBasicShade

HT

High Translucent

HS

High Strength

DDBioZX²color



16 VITA®-
+ 5 Universal
shades

DDBioZcolor



8 VITA®-
+ 5 Universal
shades

DDBioZX²



DDBioZ









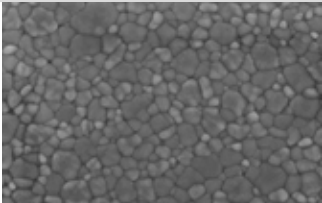
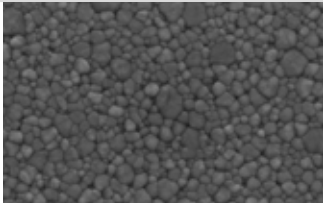
DDProShadeZ

DDBasicShade

DDProShadeZ

DDBasicShade





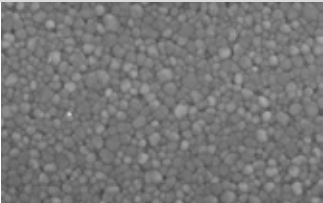
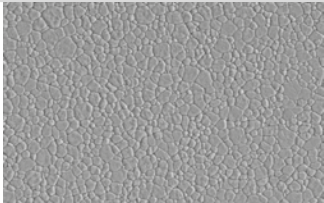
Indication and type guide
























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

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
<i>DDBioZX²</i> 3Y-TZP-LA	<i>DDBioZ</i> 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	DDcubeX ² [®] DDcubeX ² ML [®]						
HT+	DDcubeONE [®] DDcubeONE [®] ML						
HT	DDBioZX ² DDBioZX ² color						
HS	DDBioZ DDBioZcolor						

Ideal results depend on individual circumstances.

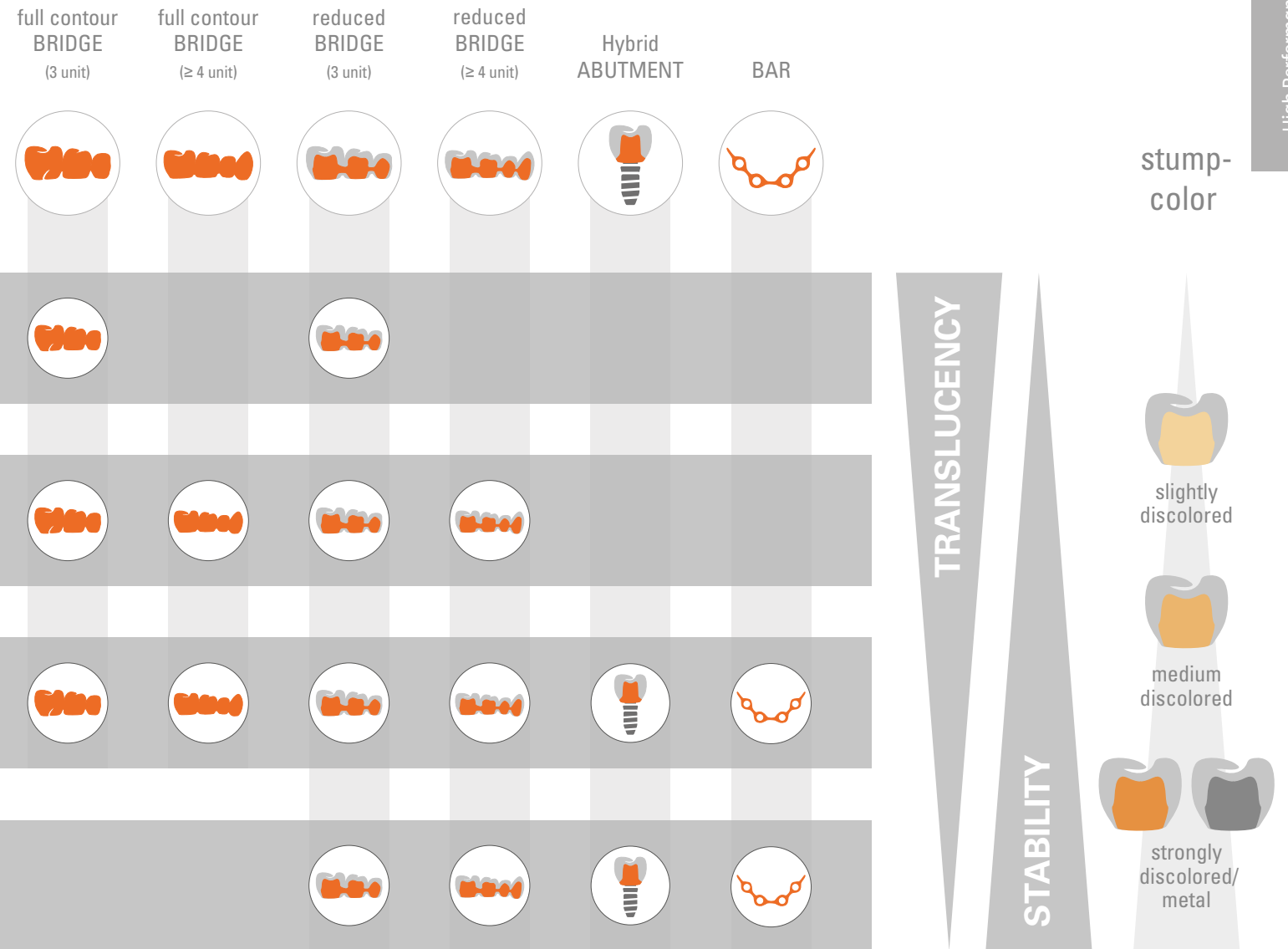
Influence on the final shade of a fixed restoration

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

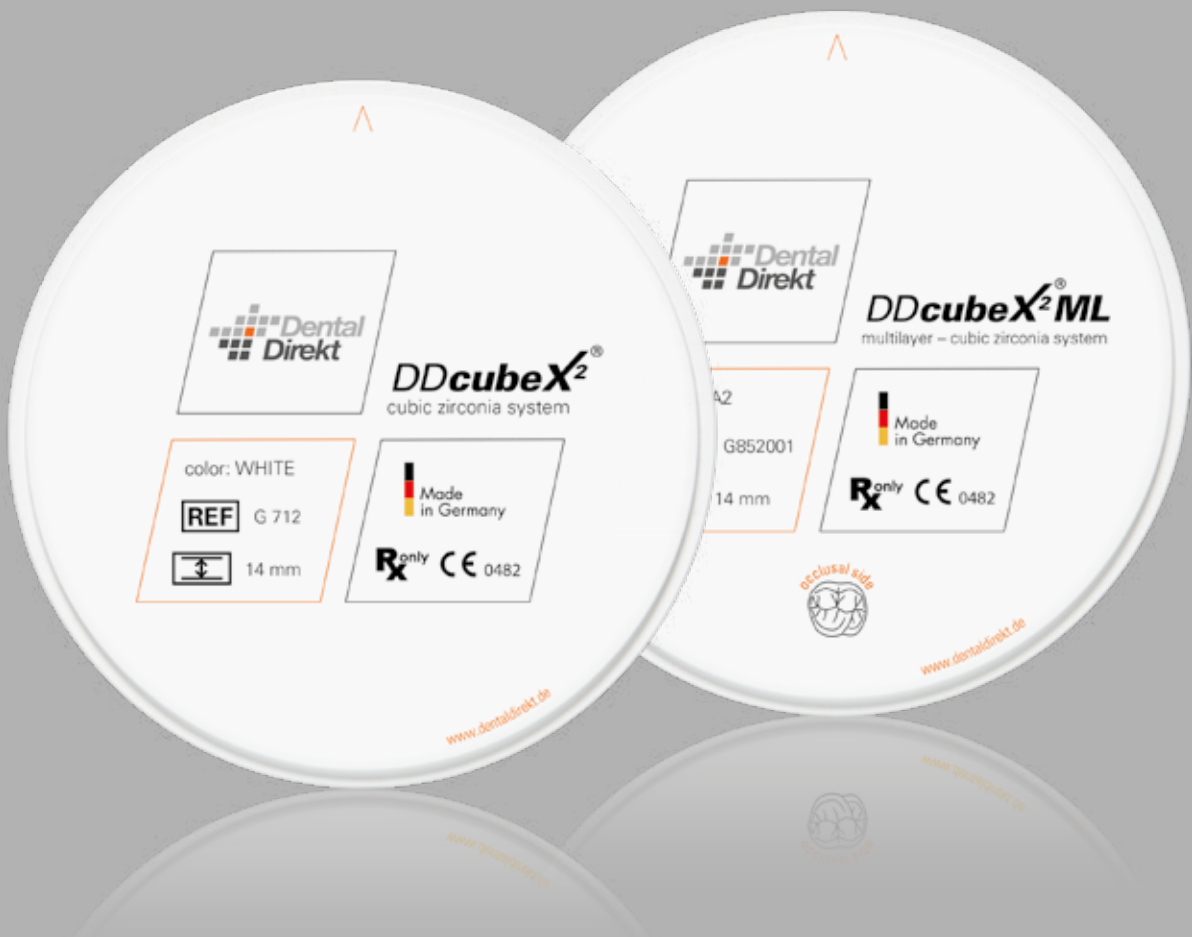
In case of a significantly discolored stump and preparation with low substance removal a more opaque zirconia (DD Bio ZX², DD Bio Z) could be used to cover up the underlying structure.

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[®]

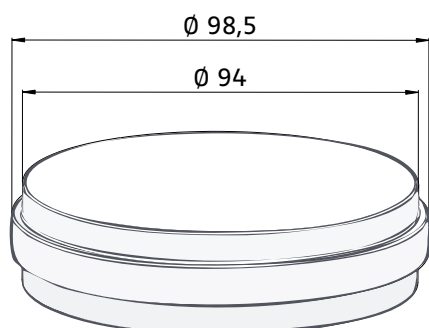


DDcubeX² 98

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 temperatur	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

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

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

DDcubeX²ML98

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 temperatur	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



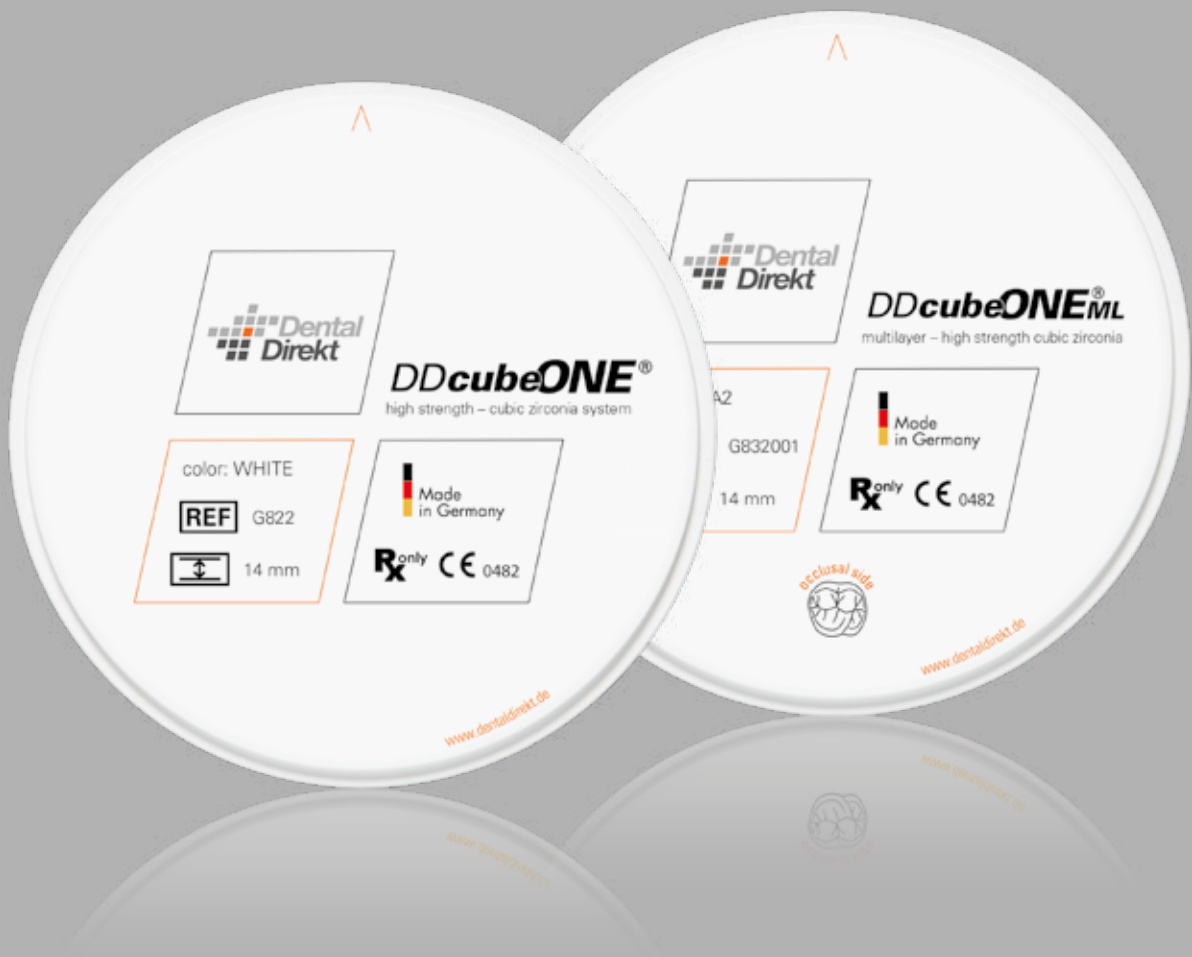
Measure	C1	C2	C3	C4	Price (euro/net)
98,5 x 14 mm	G852012	G852005	G852013	G852014	179,00
98,5 x 18 mm	G854012	G854005	G854013	G854014	219,00
98,5 x 22 mm	G856012	G856005	G856013	G856014	259,00



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

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

DDcubeONE®

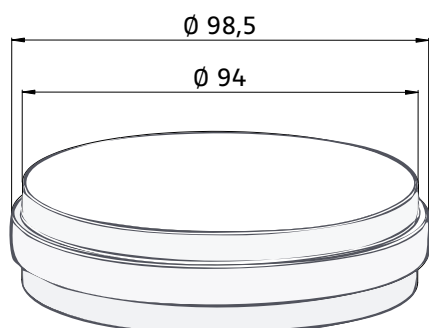


DDcubeONE® 98

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 temperatur	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

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

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

DDcubeONE[®]ML 98

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 temperatur	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

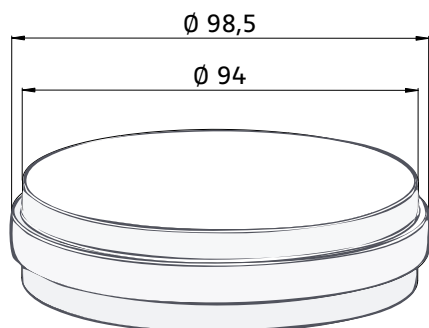


DDBioZX²98

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 temperatur	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

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

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

DDBio ZX²19

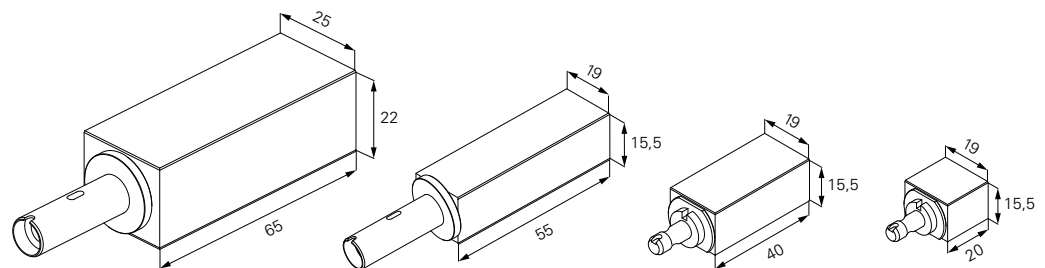
high translucent zirconia

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 temperatur	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

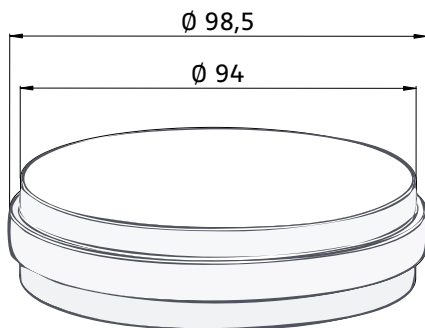
Consult instructions for use.
Not all products are available in every country.

DDBioZX²98color

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	In 5 universal colors
Aesthetics	High Translucent
Sintering temperatur	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



Height	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)
10 mm	G 590.001.0	G 590.002.0	G 590.003.0	G 590.004.0	G 590.005.0	139,00
14 mm	G 592.001.0	G 592.002.0	G 592.003.0	G 592.004.0	G 592.005.0	159,00
18 mm	G 594.001.0	G 594.002.0	G 594.003.0	G 594.004.0	G 594.005.0	199,00
20 mm	G 595.001.0	G 595.002.0	G 595.003.0	G 595.004.0	G 595.005.0	214,00
25 mm	G 596.001.0	G 596.002.0	G 596.003.0	G 596.004.0	G 596.005.0	249,00

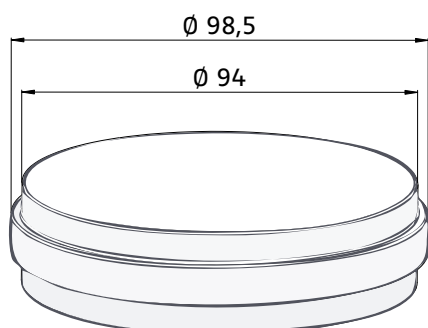
Consult instructions for use.
Not all products are available in every country.

DDBioZX²98color

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 temperatur	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



Height	A1	A2	A3	A3,5	A4	Price (euro/net)
10 mm	G 590.012.0	G 590.006.0	G 590.007.0	G 590.008.0	G 590.013.0	139,00
14 mm	G 592.012.0	G 592.006.0	G 592.007.0	G 592.008.0	G 592.013.0	159,00
18 mm	G 594.012.0	G 594.006.0	G 594.007.0	G 594.008.0	G 594.013.0	199,00
20 mm	G 595.012.0	G 595.006.0	G 595.007.0	G 595.008.0	G 595.013.0	214,00
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.



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



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



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

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

DDBioZ

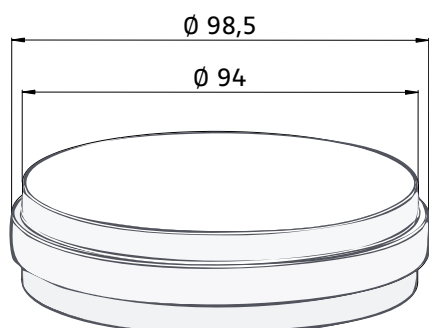


DDBioZWis98

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 temperatur	1.450 °C
Bending strength	1.300 MPa (4 point test)
Fracture toughness	> 9 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

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

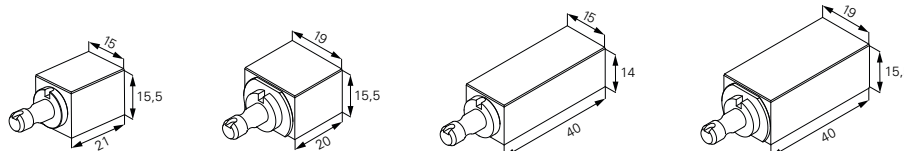
Consult instructions for use.
Not all products are available in every country.

DDBioZS high strength zirconia

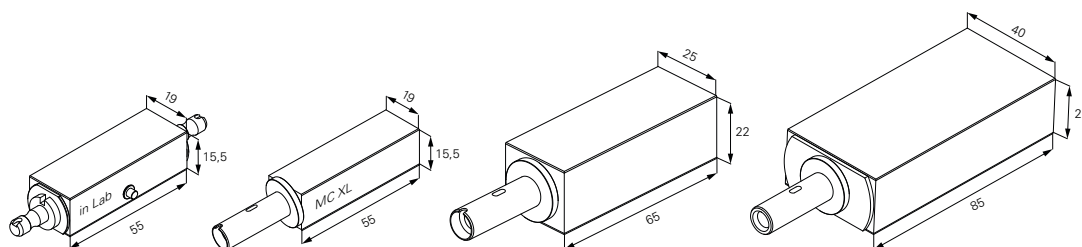
perfectly suitable for

- 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 temperatur	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

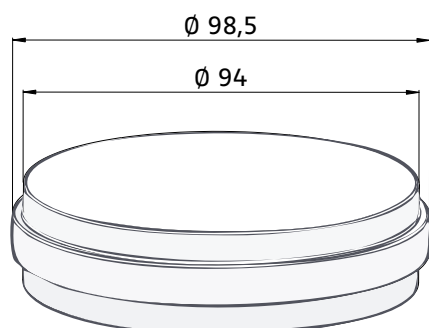
Consult instructions for use.
Not all products are available in every country.

DDBioZWisoz98color

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	In 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



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

DDBioZWisocolor

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 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	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

Coloring Liquids



DDBasicShade
Universal Dentine Liquid



DDBioZ



← more grayish



DDBioZX²



← more grayish



DDcubeONE[®]



← more grayish



DDcubeX²[®]



← more grayish

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

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

Recommendation





DDProShade Z
Special Dentine Liquid



DDProShade C
Special Dentine Liquid



more reddish



more reddish



more reddish



more yellowish



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

DD recommendation: combination with DD cube ONE® (HT+) and DD cubeX2® (SHT)
Perfect basis for individual painting of monolithic crown and bridges (DD contrast® color and form concept by Andreas Nolte) or minimal layering (cut back)

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 HS
- DD Bio ZX² (3Y-TZP-LA) High Translucent HT
- DD cube ONE® (4Y-TZP) High Translucent Plus HT+
- DD cubeX® (5Y-TZP) Super High Translucent 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.

DDProShade Z

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 HS
- DD Bio ZX² (3Y-TZP-LA) High Translucent HT
- DD cube ONE® (4Y-TZP) High Translucent Plus 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


Recommended for:

- DD cubeX® (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)

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

DDArtElements











Recommended for:


- DD Bio Z (3Y-TZP-A) High Strength HS
- DD Bio ZX² (3Y-TZP-LA) High Translucent HT
- DD cube ONE® (4Y-TZP) High Translucent Plus HT+
- DD cubeX® (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	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 (OM3 · 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 (OM1 · OM2) for dipping (all dentine colors)	LAE15SO
SO Bright	for painting (OM1 · OM2) for dipping (all dentine colors) developed specially for DD cube ONE®.	LAE15SOB
Price (euro/net)		14,90

Incisal SO / SO Bright

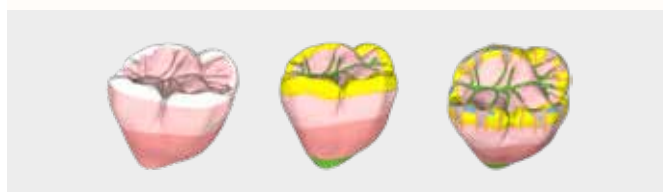
Optimized for efficient dipping technique.



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.

Aesthetic Finish

03



















DDcontrast® color and form concept by *A. Wlke*


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	DDCCCHA	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 – Peg Putty

- Conveniently stabilizes ceramic restorations on firing pegs.
- Zero clean-up is required – just a blast of compressed air is sufficient.
- No tiresome divesting by way of scraping out and sand blasting.
- 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 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.	TCPPASTE01/20	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

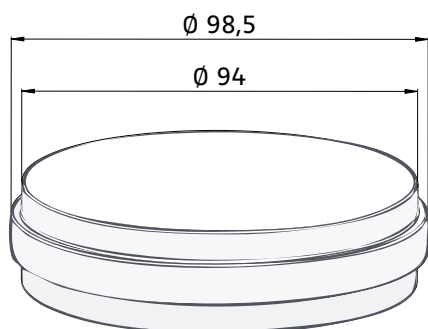
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DDBioSplint^{PHI98}

high impact thermoplastic

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 minimises 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

Height	Order-no.	Price (euro/net)
15 mm	K40115	29,00
20 mm	K40120	35,00
25 mm	K40125	40,00



Consult instructions for use.

Not all products are available in every country.

DDBioSplint[®]C98

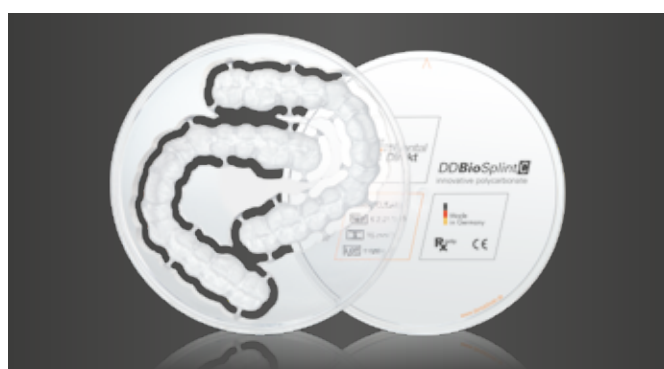
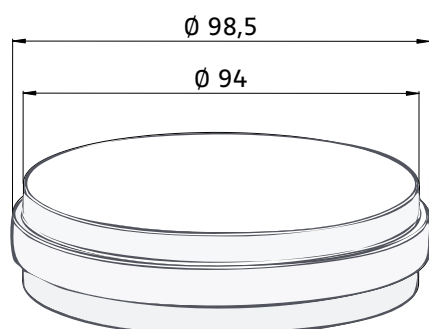
innovative polycarbonate

Polycarbonate for occlusal splints

DD Bio Splint C blanks consist of a highly cross-linked High-Tech-Polymer based on a medical polycarbonate. We have developed this material innovation as the ideal material for CAM-manufactured bite splints.


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



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

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

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

DDtempMED98

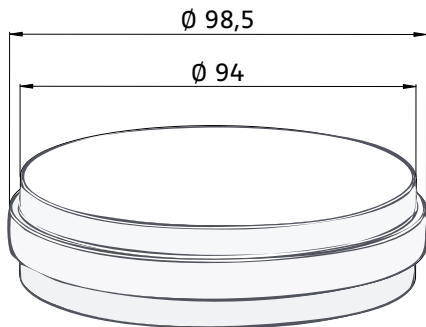
high translucent polymers

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/mm ³
Solubility ISO 20795-1	0,3 – 0,7 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 – 99,8
Coloring pigments	0,2 – 1



Height	Bleach	A1	A2	A3	A3,5	B2	C2	D3	Price (euro/net)
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
16 mm	K42216	–	–	–	–	–	–	–	32,00
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
25 mm	K42225	–	–	–	–	–	–	–	39,00



Consult instructions for use.

Not all products are available in every country.

DDpolyX^{ML}98

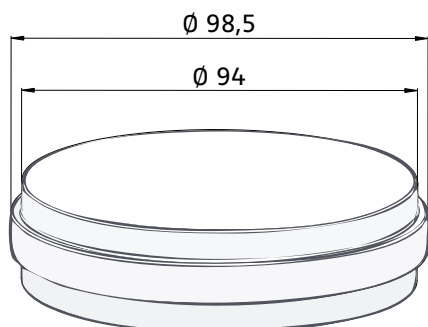
multilayer – natural colored polymers

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	Klasse IIa nach 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



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

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

DDpeekMED98

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
- Adheres with PMMA
- Suitable for allergy patients
- Outstanding sliding qualities (telescopes)

Technical data	
Material	Polyether ether ketone (PEEK)
Classification	Class IIa according to MDD/MDR
Indication	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) For the manufacture of fixed or removable dental framework constructions for long-term use.
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



Height	white	dentine	natural	gingiva	Price (euro/net)
14 mm	K 3.01.14	K 3.02.14	K 3.03.14	K 3.04.14	189,00
18 mm	K 3.01.18	K 3.02.18	K 3.03.18	K 3.04.18	229,00
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

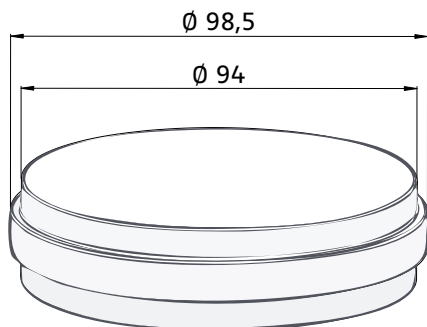
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DDBioCW

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 $\varnothing 98,5$ mm blanks

Chemical composition [Weight %]

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

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



Consult instructions for use.

Not all products are available in every country.

DDcamWAX98

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		
Height	Order-no.	Color	Price (euro/net)
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		
Height	Order-no.	Color	Price (euro/net)
15 mm	G 944	brown	19,90

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

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CLOSE TO YOU

