

***DDBio**ZX²98color*

natural chroma – high translucent zirconia



CLOSE TO YOU

DDBio ZX² 98 color

precolored, high translucent zirconium oxide

More than two in one

The DD Bio ZX² system combines the known positive properties of classic zircon with a significant increase in translucency. This material is perfect for all highly aesthetic restorations.

Perfect for:

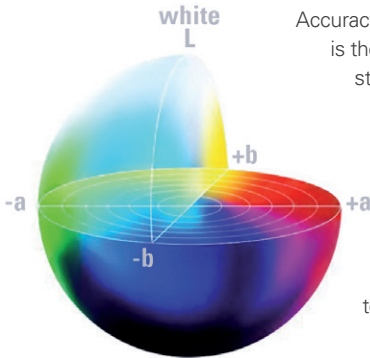
- monolithic crowns and bridges
- cut back (one layer)
- highly aesthetic veneering
- reliable reproduction of color via industrial coloring
- time-saving, as no additional coloring or drying is necessary



physical features	
characteristics	value
ZrO ₂ , HfO ₂ , Y ₂ O ₃	> 99%
Al ₂ O ₃	< 0,5%
other oxides	< 0,25%
fracture toughness	> 6 MPa* m ^{1/2}
bending strength (4-point)	1200 (+/- 200) MPa

all ranges are possible

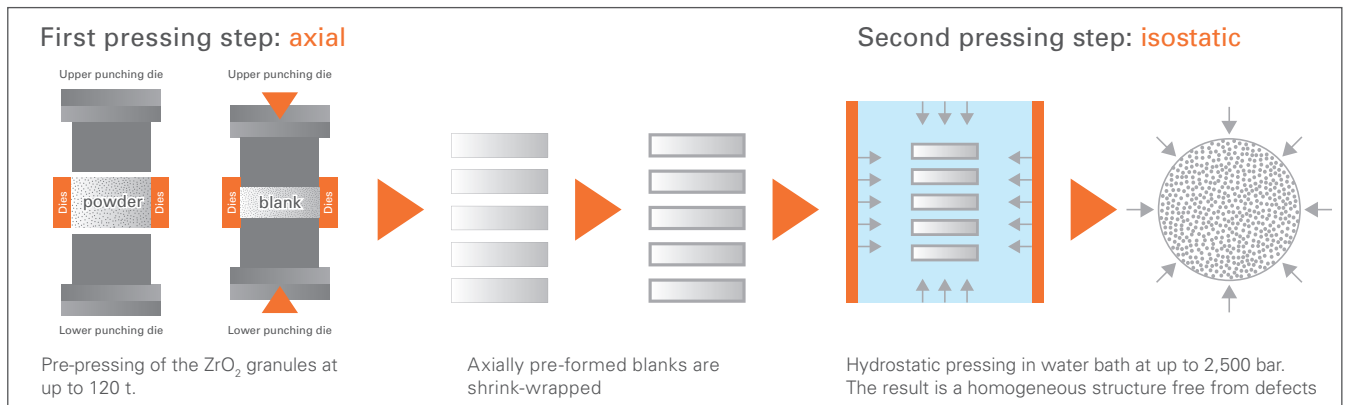
Multi-Additive-Technology[®]



Accuracy in the production of VITA[®] shades is the foundation for a successful pre-colored zirconia. Especially important is the consistency in the reproduction of shades. The Multi-Additive-Technology[®] from Dental Direkt defines a new standard in color accuracy according to VITA[®] shades with an incomparable consistency of color reproduction.

From our experience with DD Bio ZX² color light, medium, intense, low chromatic and high chromatic we have seen that the demand for the very accurate reproduction of shades has grown tremendously – leading to the ambitious goal of developing all 16 VITA[®] shades. The demand is driven by an increase in high quality and highly aesthetic monolithic restorations. Within this trend the user benefits from our Multi-Additive-Technology[®] which combines biocompatible, metal free coloring dopants in a very balanced concentration for every single VITA[®] shade. The development process of all 16 VITA[®] shades contains visual approval as well as measuring techniques. Hereby we rely on the L*a*b values (see visualization) which are obtained using the CIELAB model.

Isostatic pressing – much more than a quality criterion



To achieve the best strength and translucency, isostatic pressing has to be a core process in zirconium oxide production. When pressing of the blanks is solely uniaxial, they have a greater potential for imperfections in the microstructure and are less homogeneous. In order to guarantee the best properties, all DD Bio ZX² blanks are pressed individually and isostatically in a complex process.

high translucent zirconium oxide (3Y-TZP-LA)



height	A1	A2	A3	A3,5	A4
10 mm	G 590.012.0	G 590.006.0	G 590.007.0	G 590.008.0	G 590.013.0
14 mm	G 592.012.0	G 592.006.0	G 592.007.0	G 592.008.0	G 592.013.0
18 mm	G 594.012.0	G 594.006.0	G 594.007.0	G 594.008.0	G 594.013.0
20 mm	G 595.012.0	G 595.006.0	G 595.007.0	G 595.008.0	G 595.013.0
25 mm	G 596.012.0	G 596.006.0	G 596.007.0	G 596.008.0	G 596.013.0



height	B1	B2	B3	B4
10 mm	G 590.014.0	G 590.009.0	G 590.015.0	G 590.016.0
14 mm	G 592.014.0	G 592.009.0	G 592.015.0	G 592.016.0
18 mm	G 594.014.0	G 594.009.0	G 594.015.0	G 594.016.0
20 mm	G 595.014.0	G 595.009.0	G 595.015.0	G 595.016.0
25 mm	G 596.014.0	G 596.009.0	G 596.015.0	G 596.016.0



height	C1	C2	C3	C4
10 mm	G 590.017.0	G 590.010.0	G 590.018.0	G 590.019.0
14 mm	G 592.017.0	G 592.010.0	G 592.018.0	G 592.019.0
18 mm	G 594.017.0	G 594.010.0	G 594.018.0	G 594.019.0
20 mm	G 595.017.0	G 595.010.0	G 595.018.0	G 595.019.0
25 mm	G 596.017.0	G 596.010.0	G 596.018.0	G 596.019.0



height	D2	D3	D4
10 mm	G 590.020.0	G 590.011.0	G 590.021.0
14 mm	G 592.020.0	G 592.011.0	G 592.021.0
18 mm	G 594.020.0	G 594.011.0	G 594.021.0
20 mm	G 595.020.0	G 595.011.0	G 595.021.0
25 mm	G 596.020.0	G 596.011.0	G 596.021.0

