

MADE IN ITALY  
Bettini Spa, established 1875



## ZIRCONIA FOR DENTAL PROSTHETIC FRAMES



Certified ISO 9001:2008



Reg. No: MED 27020



FDA 510k Number K113431



Bettini S.p.A.  
Via Industriale, 11 - 23804 Monte Marenzo (LC)  
Tel. +39 0341.63.15.88 - Fax: +39 0341.63.15.89  
[www.bettinidental.it](http://www.bettinidental.it) - [info@bettinidental.it](mailto:info@bettinidental.it)

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## STRENGTH AND CONSISTENCY

- Zirconia (Zirconium dioxide) offers excellent flexural and mechanical qualities for dental prosthetic components. Strength and consistency are the critical factors for dental zirconia. Bettini selects, refines and

blends top quality zirconia powder and trace constituents. In white and translucent forms, BZD milling blanks are strong and consistent.

### TECHNICAL DATA (SINTERED PRODUCT)

	DENSITY g/cm <sup>3</sup>	HARDNESS GPa	TRANSMITTANCE
DB+ white	6.05	> 12.5	∅
DB+Lux translucent	6.05	> 12.5	41%

## PRODUCTION PROCESS

BZD milling blanks are manufactured in four controlled production steps.

- ↓ **Axial Pressing** applies bipolar pressure to form a standard milling blank shape and size in disc, block or cylinder form. Bettini can press custom shapes and sizes.
- ↓ **Isostatic Pressing** (at 2000MPa) applies pressure equally on all sides of the mold. With Isostatic pressing, BZD milling blanks obtain homogeneous density and shrinkage factors.
- ↓ **Final shaping** gives the precise geometry required for specific mill makes and types.
- ↓ **Pre-Sintering** toughens the stock enough to prevent micro-chipping during milling while keeping it porous enough to mill easily.

## FINAL SINTERING

- After milling at the dental lab, zirconia prostheses are sintered to full hardness. BZD milling blanks are sold with a batch-specific shrinkage factor. Upon final sintering, BZD-made prostheses will achieve the specified clinical dimensions.

## PRODUCTS

- The following BZD milling blanks are available in white and in high translucent zirconia.

### SHAPES - SIZES (MM)

DISCS	DISCS	BLOCKS	CYLINDERS
DB+	DB+	DB+	DB+
DB+LUX	DB+LUX	DB+LUX	DB+LUX
∅ 98,5 X 10	∅ 95 X 14	40 X 15 X 14	∅ 16 X 16
∅ 98,5 X 12	∅ 95 X 16	40 X 20 X 16	∅ 20 X 20
∅ 98,5 X 14	∅ 95 X 18	42 X 20 X 16	
∅ 98,5 X 16	∅ 95 X 20	42 X 20 X 20	
∅ 98,5 X 18		43 X 25 X 16	
∅ 98,5 X 20		43 X 25 X 20	
		43 X 25 X 22	
		62 X 25 X 20	
		75 X 36 X 16	
		75 X 36 X 20	

\* We can provide custom shapes and sizes upon request

