 Zirchime Biomaterial Co.,Ltd

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诚以心 锆之音
Chime for partership Chime for zirconia



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ABOUT US

ZirChime biomaterial was founded in 2018, specializing in manufacturing zirconia CAD/CAM blocks, lithium disilicate blocks and other consumable materials for dental prosthetics.

ZirChime biomaterial is a technology drive company, team consist of experienced experts and engineers working on ceramic, glass, and organic materials. This experience is reflected in the unique manufacturing process control and coloring technology with high esthetics.

Over 15 years of experience in preparing, we export high quality products on the basis of the trust given by our customers. ZirChime biomaterial is China's leading dental consumable materials manufacturer.

We aim to make competitive products for CAD/CAM dentistry without compromise to quality.

ADVANTAGES



CUSTOMER SERVICE

Treat every customer with passion and honesty, aim to build a long-term and harmonious supply relationships to face the market challenges.



INNOVATION AND EFFICIENTIVE

Use automation technology and material innovation to ensure that customers can experience the latest technology and the most stable quality while enjoying Chinese prices.



PEOPLE ORIENTED

Continuously improve the team's technical and management level on each aspects on material development, quality improvement, production line upgrades.



GLOBAL PARTNERS



ZIRCONIA BLOCK | Classify

White



Transmittance&Strength

HT	40%	≥ 1300 MPa
ST	43%	≥ 1200 MPa
SHT	46%	≥ 900 MPa
UT	48%	≥ 600 MPa

Shaded



Color

HT	VITA16 color/BL1-4/White
ST	VITA16 color/BL1-4/White
SHT	VITA16 color/White

Multilayer



Transmittance&Strength

3D ML	48%	600 MPa (incisal)
	42%	900 MPa (cervical)
4D ML	48%	650-700 MPa (incisal)
	44%	1200 MPa (cervical)
SHT ML	44%	≥ 900 MPa

HT FULL ZIRCONIA



Sintering Temperature	1530 °C
3-Point Bending Strength	≥ 1300 MPa
Translucency	40%
Vickers Hardness (Hv10)	> 1200

ST FULL ZIRCONIA



Sintering Temperature	1530 °C
3-Point Bending Strength	≥ 1200 MPa
Translucency	43%
Vickers Hardness (Hv10)	> 1200

Typical indication



Coping, Posterior, Bridge, Full Arch, framework

Coloring Liquid

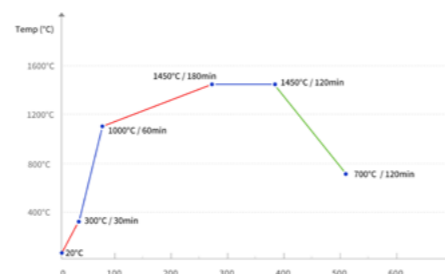
Available

Physical and Chemical properties

Holding 120min at Max temperature

Do not open the furnace door above 80°C to avoid thermal shock stress

Sintering temperature



Typical indication



Coping, Anterior, Posterior Inlay, Coping, Crown, Full Arch

Coloring Liquid

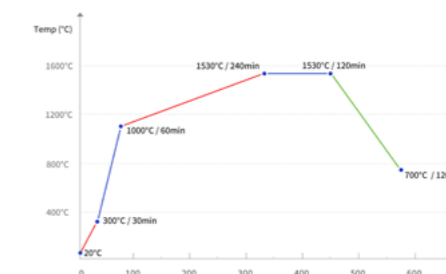
Available

Physical and Chemical properties

Holding 120min at Max temperature

Do not open the furnace door above 80°C to avoid thermal shock stress

Sintering temperature



Sintered density

≥ 6.02 g/cm³



Pre-shaded Blank

VITA16 color/BL1-4/ White



Available Thickness

10/12/14/16/18/20/22/25(mm) Customization



Applicative Systems

Open/Amann Girrbach/ ZirKon Zahn



Sintered density

≥ 6.02 g/cm³



Pre-shaded Blank

VITA16 color/BL1-4/ White



Available Thickness

10/12/14/16/18/20/22/25(mm) Customization



Applicative Systems

Open/Amann Girrbach/ ZirKon Zahn

SHT FULL ZIRCONIA



Sintering Temperature	1450 °C
3-Point Bending Strength	≥ 900 MPa
Translucency	46%
Vickers Hardness (Hv10)	> 1200

UT FULL ZIRCONIA



Sintering Temperature	1450 °C
3-Point Bending Strength	≥ 600 MPa
Translucency	~48%
Vickers Hardness (Hv10)	> 1200

Typical indication



Coping, Posterior
Bridge, Full Arch, framework

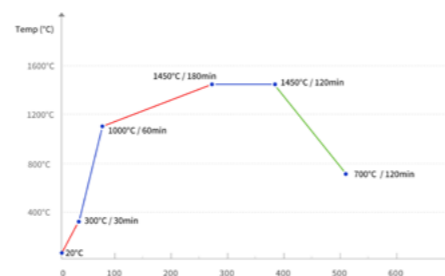
Coloring Liquid

Available

Physical and Chemical properties

Holding 120min at Max temperature
Do not open the furnace door above 80°C to avoid thermal shock stress

Sintering temperature



Typical indication



Anterior Veneer
Inlay, Crown, Bridge

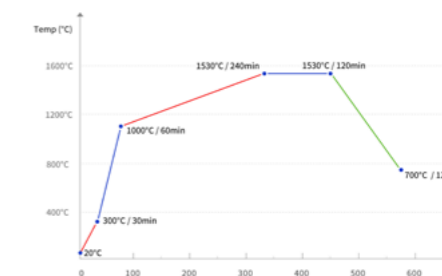
Coloring Liquid

Not available

Physical and Chemical properties

Holding 120min at Max temperature
Do not open the furnace door above 80°C to avoid thermal shock stress

Sintering temperature



Sintered density
g/cm³ ≥ 6.02 g/cm³

Pre-shaded Blank
Blank VITA16 color/White

Available Thickness
10/12/14/16/18/20/22/25(mm)
Customization

Applicative Systems
Systems Open/Amann Girrbach/
ZirKon Zahn

Sintered density
g/cm³ ≥ 6.02 g/cm³

Pre-shaded Blank
Blank White

Available Thickness
10/12/14/16/18/20/22/25(mm)
Customization

Applicative Systems
Systems Open/Amann Girrbach/
ZirKon Zahn

3D ML FULL ZIRCONIA



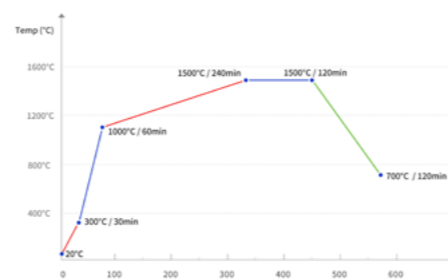
Sintering Temperature	1500 °C
3-Point Bending Strength	≥ 600 MPa incisal ≥ 900 MPa cervical
Translucency	48% incisal 42% cervical
Vickers Hardness (Hv10)	> 1200

Typical indication



Anterior
Veneer, Crown, Bridge, arch

Sintering temperature



Physical and Chemical properties

Holding 120min at Max temperature
Do not open the furnace door above 80°C to avoid thermal shock stress



Sintered density
≥ 6.02 g/cm³



Pre-shaded Blank
Vita classic 16/
BL1-4



Available Thickness
10/12/14/16/18/20/22/25(mm)



Applicative Systems
Open/Amann Girrbach/
ZirKon Zahn

4D ML FULL ZIRCONIA



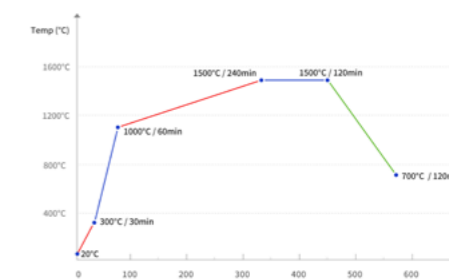
Sintering Temperature	1500 °C
3-Point Bending Strength	≥ 650/700 MPa incisal ≥ 1200 MPa cervical
Translucency	48% incisal 44% cervical
Vickers Hardness (Hv10)	> 1200

Typical indication



Anterior,
Veneer, Crown, Bridge

Sintering temperature



Physical and Chemical properties

Holding 120min at Max temperature
Do not open the furnace door above 80°C to avoid thermal shock stress



Sintered density
≥ 6.02 g/cm³



Pre-shaded Blank
Vita classic 16/
BL1-4



Available Thickness
10/12/14/16/18/20/22/25(mm)



Applicative Systems
Open/Amann Girrbach/
ZirKon Zahn

SHT ML FULL ZIRCONIA



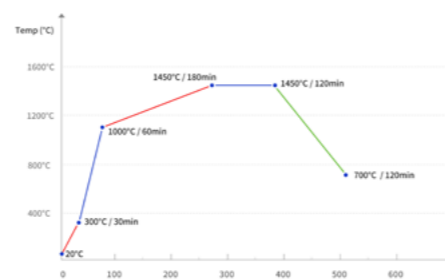
Sintering Temperature	1450 °C
3-Point Bending Strength	≥ 900 MPa
Translucency	~ 42%
Vickers Hardness (Hv10)	> 1200

Typical indication



Posterior
Crown, Bridge, Long-span, Bridge,

Sintering temperature



Physical and Chemical properties

Holding 120min at Max temperature
Do not open the furnace door above 80°C to avoid thermal shock stress



Sintered density
≥ 6.02 g/cm³



Pre-shaded Blank
Vita classic 16/
BL1-4



Available Thickness
10/12/14/16/18/20/22/25(mm)



Applicative Systems
Open/Amann Girrbach/
ZirKon Zahn

PMMA



Modulus of Elasticity	100 MPa	Component	PMMA > 99%
Water Absorption	< 0.04%	Pigment	> 1%

With the highly cross-linked polymethyl methacrylate (PMMA) you can easily combine precise processing with outstanding material properties. Excellent milling behaviour, high stability and good polishing properties make our products a first-class choice for laboratory fabricated temporary restorations and splints.

Indications

Temporary crowns and bridges

Colours

AI/A2/A3/A3.5/A4/B1/B2/B3/B4/C1/C2/C3/C4/D2/D3/D4/
Pink/Clear/White/Bleach



Density
1.35-1.45g/cm³



Hardness
85-90 (Shore hardness)

LITHIUM DESILICATE



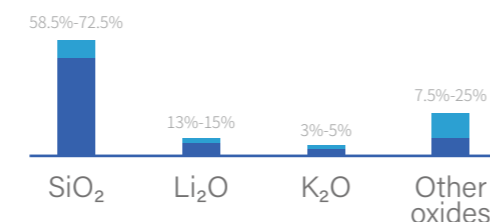
Bending strength	> 480 MPa
Radioactivity	≤ 1.0 Bq/g
Temperature	<100 µg/cm ²
Transition	500 ± 20 °C
Density	2.3–2.6 g/cm ³
Density after sintering	2.4–2.7 g/cm ³

Thermal expansion coefficient
 $(10 \pm 0.5) \times 10^{-6} K^{-1}$

Indication

Veneers, inlays, high precursors
 anterior single crown
 Posterior single crown

Chemical composition



Specifications

color	A1	A2	A3	A3.5	B1	B2	B3	B4	C1	C2	C3	C4	D2
CAD-HT18-15-13	•	•	•	•	•	•	•	•	•	•	•	•	•
CAD-LT18-15-13	•	•	•	•	•	•	•	•	•	•	•	•	•
CAD-HT40-15-15	•	•	•	•	•	•	•	•	•	•	•	•	•
CAD-LT40-15-15	•	•	•	•	•	•	•	•	•	•	•	•	•
CAD-HT 18-15-13	•	•											
CAD-LT 18-15-13	•	•											

color	D3	D4	BL1	BL2	BL3	BL4
CAD-HT18-15-13			•	•	•	•
CAD-LT18-15-13	•	•	•	•	•	•
CAD-HT40-15-15			•	•	•	•
CAD-LT40-15-15	•	•	•	•	•	•
CAD-HT 18-15-13			•	•	•	•
CAD-LT 18-15-13			•	•	•	•

color	0	1	2	3	4
CAD-MO18-15-13	•				
CAD-MO40-15-15	•				

COLORING LIQUID

Coloring liquid for all-ceramic dental prosthesis.

The main ingredients: deionized water, polyethylene glycol, coloring elements.

Specifications and Models.

