

Guangzhou Topzir Biotech Co.,Ltd

Make You Smile Full
of Confidence



Guangzhou Topzir Biotech Co.,Ltd

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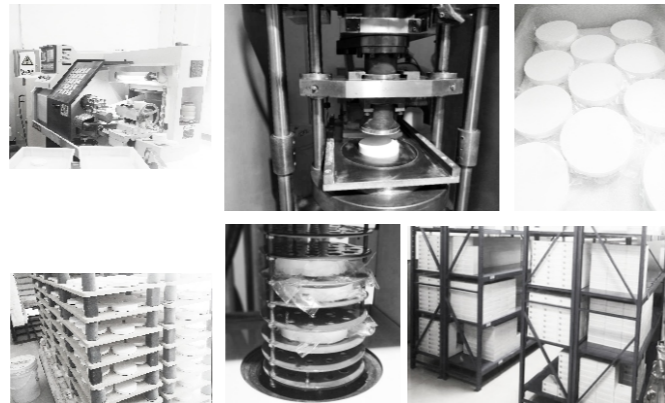
About Us

Guangzhou Topzir Biotech Co.,Ltd, a professional manufacturer of high-quality biocompatible zirconia blank which have been dedicating to the most health and natural-looking dental restorations for the patients.

Since 2011, we have been focusing on the research & development, production and sales with the products and services widely applied to dental restoration for dental clinics, dental labs, dental milling centers and distributors with a wide selection of different strength and translucency dental zirconia blank compatible with most common CAD/CAM systems like Roland, Wieland, VHF, Amann Girrbach, Zirkozahn etc.

Topzir Biotech currently has marketing network involving distribution in some countries.

Reliable quality, flexible service, continuously innovation, Topzir is keeping working to improve herself and continually creating value for partners.



Quality control:

Topzir zirconia has been continually tested from the powder to final zirconia blank in order to make sure the zirconia is 100% safe and quality every time.

1. Each lot of zirconia powder will be inspected for sintering test with small samples before manufacturing.
2. Sampling test and 100% full test will be strictly controlled in each procedure to ensure a high quality products for customer.

Production

Topzir zirconia blanks are made using COLD ISOSTATIC PRESSING system with best fine zirconia powders used in medical applications. Isostatic pressing technique results in highly homogenous blank is in respect of a precise sintering shrinkage of zirconia blank to ensure reliable preparation of large frameworks like wide span bridges. As a manufacturing company with a professional background, we are committed to providing high quality and beautiful teeth to your patients.

Topzir Dental zirconia blanks for your requirements

	HT-plus	ST	ST-plus	TT	4D
Efficiency	Strength 1300mpa	Strength 1200mpa	Strength 1000mpa	Strength 650mpa	Strength 600-900mpa Strength 800-1100mpa
	Traslucency 38%	Translucency 42%	Translucency 46%	Transluceny 50%	Transluceny 46-49% Transluceny 44-47%
	For framwork	For full contour & long brige	For long brige and anterior	For Anterior	Functional and Ethestic
Multilayer	-	Multilayer dental zirconia Vita 16 colors	Multilayer dental zirconia Vita 16 colors	Multilayer dental zirconia Vita 16 colors	Multilayer dental zirconia A1 A2 A3 A3.55 B1 B2 C2
Preshaded	-	preshaded dental zirconia Vita 16 colors	preshaded dental zirconia Vita 16 colors	preshaded dental zirconia Vita 16 colors	-
White	white HT-plus	White ST	White ST-plus	WhiteTT	-

Strength Translucency



Advantages

Aesthetic:

Topzir dental zirconia blank are available in three different translucency grades like 38% translucency, 43% translucency, 46% translucency and 50% translucency and it looks more natural-looking than you expect.

Solid:

The crowns and bridges made by Topzir zirconia blank are stronger than other metal materials restoration. You and your patients can be certain to get the best with four different strengths of 1300mpa, 1200mpa, 1000mpa and 650mpa.

Biocompatibility:

Topzir dental zirconia is the most 100% biocompatibility for dentistry without any radioactivity. Our blank is 100% quality checked before final packaging to ensure the material is of the highest quality.

Anti-aging:

Topzir dental zirconia is with long-lasting stability and metal free restoration.

Compatibility:

Topzir zirconia blank are Compatible with Amann Girrbach, Zirkozahn, Roland and all open 98.5mm CAD/CAM Milling Machines.

HT-plus

Topzir High translucency dental zirconia blank



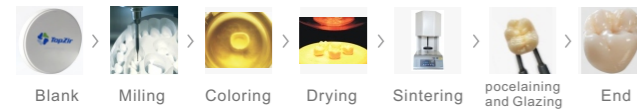
Topzir HT-plus white zirconia blank is reliable material compatible with most available milling machines. It has great bending strength and excellent hardness which is suitable for coping and framework.

Color	White
Compatibility	Roland, Wieland, VHF, Yenadent, Sirona System Zakonzahn system Amann Girrbach system
Height	Standard 98mm, height of 10,12,14,16,18,20,22,25mm 95mm height of 10,12,14,16,18,20,22,25mm Amann Girrbach: height of 12,14,16,18,20 and 25mm

Indications:

- Suitable for coping and framework
- Superior strength and translucency

Procedures



Chemical Composition

ZrO ₂ +HfO ₂ +Y ₂ O ₃	≥99%
Y ₂ O ₃	4.5~6%
HfO ₂	≤5%
Al ₂ O ₃	≤0.5%
Other oxides	≤0.5%



Physical Characteristics

Density before sintering	3.15-3.25 g.cm-3
Density after sintering	6.05-6.07 g.cm-3
Flexural strength after sintering	1350mpa
Translucency	38%
Chemical solubility after sintering	<100 µg.cm-2
Cytotoxicity	0 Level
Radioactivity	<0.1Bq.g-1
Sintering temperature	1500-1550°C

ST

Topzir Super translucency dental zirconia blank



Topzir ST white zirconia blank has great translucency with good dental aesthetics restorations. It is a reliable zirconia material for monolithic crown and bridge.

Color	White
Compatibility	Open CAD/CAM system 98mm with step, like Roland, Wieland, VHF, Yenadent, Sirona system Zakonzahn system Amann Girrbach system
Height	Standard 98 and 95, height of 10,12,14,16,18,20,22,25mm Amann Girrbach: height of 12,14,16,18,20 and 25mm

Features:

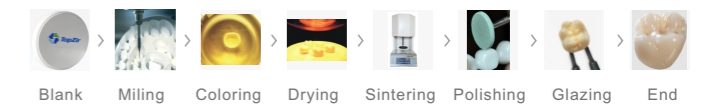
- Suitable for full contour crown and long span bridge
- Suitable for onlay and inlay

Chemical Composition

ZrO ₂ +HfO ₂ +Y ₂ O ₃	≥99%
Y ₂ O ₃	4.5~6%
HfO ₂	≤5%
Al ₂ O ₃	≤0.5%
Other oxides	≤0.5%



Procedures



Physical Characteristics

Density before sintering	3.15-3.25 g.cm-3
Density after sintering	6.05-6.07 g.cm-3
Flexural strength after sintering	1200 Mpa
Translucency	43%
Chemical solubility after sintering	<100 µg.cm-2
Cytotoxicity	0 Level
Radioactivity	<0.1Bq.g-1
Sintering temperature	1500-1550°C

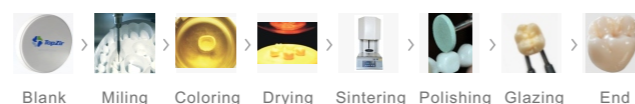
Topzir ST-plus white zirconia blank is efficient for end users which can make all in one with high translucency and high strength.

Color	White
Compatibility	Open CAD/CAM system 98mm with step, like Roland, Wieland, VHF, Yenadent, Sirona system Zakonzahn system Amann Girrbach system
Height	Standard 98 and 95, height of 10, 12, 14, 16, 18, 20, 22, 25mm Amann Girrbach: height of 12, 14, 16, 18, 20 and 25mm

Indications

- Suitable for anterior and full span bridge
- Efficiency: high translucency and high strength blank can make both anterior and long bridge with natural looking.
- Quick and cost effective for natural-looking restorations

Procedures



Chemical Composition

ZrO ₂ +HfO ₂	86~94%
Y ₂ O ₃	5.8~9.7%
Al ₂ O ₃	≤0.5%
Other oxides	≤0.5%

Physical Characteristics

Density before sintering	3.15-3.25 g.cm-3
Density after sintering	6.07-6.09 g.cm-3
Flexural strength after sintering	1000 Mpa
Translucency	46%
Chemical solubility after sintering	<100 µg.cm-2
Cytotoxicity	0 Level
Radioactivity	<0.1Bq.g-1
Sintering temperature	1450-1500°C



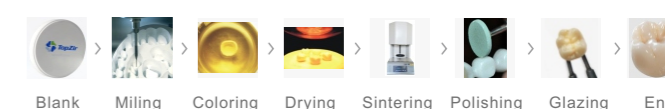
Topzir TT white zirconia blank has highest translucency for good dental aesthetics restorations. It is a reliable zirconia material for anterior restoration.

Color	White
Compatibility	Open CAD/CAM system 98mm with step, like Roland, Wieland, VHF, Yenadent, Sirona system Zakonzahn system Amann Girrbach system
Height	Standard 98 and 95, height of 10, 12, 14, 16, 18, 20, 22, 25mm Amann Girrbach: height of 12, 14, 16, 18, 20 and 25mm

Indications

- Suitable for anterior, crown and bridges up to 3 units, veneers

Procedures



Chemical Composition

ZrO ₂ +HfO ₂	86~94%
Y ₂ O ₃	5.8~9.7%
Al ₂ O ₃	≤0.5%
Other oxides	≤0.5%

Physical Characteristics

Density before sintering	>2.8 g.cm-3
Density after sintering	6.05-6.07 g.cm-3
Flexural strength after sintering	650 Mpa
Translucency	50%
Chemical solubility after sintering	<100 µg.cm-2
Cytotoxicity	0 Level
Radioactivity	<0.1Bq.g-1
Sintering temperature	1450-1500°C



ST preshaded

Topzir Preshaded Super translucency dental zirconia blank



Topzir ST preshaded zirconia blank has great translucency for natural esthetic for monolithic restoration. It is a reliable zirconia material for monolithic crown and bridge without dipping and drying necessary. Available in the shades A,B,C and D to meet most common tooth colors.

Color



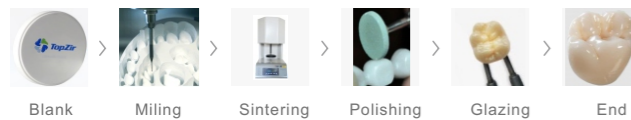
Compatibility

Roland, Wieland, VHF, Yenadent, Sirona system
Zakonzahn system
Amann Girrbach system

Height

Standard 98 and 95, height of 10, 12, 14, 16, 18, 20, 22, 25mm
Amann Girrbach: height of 12, 14, 16, 18, 20 and 25mm

Procedures



Chemical Composition

ZrO ₂ +HfO ₂ +Y ₂ O ₃	≥99%
Y ₂ O ₃	4.5~6%
HfO ₂	≤5%
Al ₂ O ₃	≤0.5%
Other oxides	≤0.5%

Indications

- Suitable for full contour crown and bridge
- Perfect color match based on vita 16 colors
- Cost efficient without dipping and drying
- Natural looking for monolithic restoration

Physical Characteristics

Density before sintering	3.15-3.25 g.cm-3
Density after sintering	6.05-6.07 g.cm-3
Flexural strength after sintering	1200 Mpa
Translucency	43%
Chemical solubility after sintering	<100 µg.cm-2
Cytotoxicity	0 Level
Radioactivity	<0.1Bq.g-1
Sintering temperature	1500-1550°C



ST-plus preshaded

Topzir ST-plus dental zirconia blank



Topzir ST-plus blank is efficient for end users which can make all in one with high translucency and high strength without coloring and glazing.

Color



Compatibility

Open CAD/CAM system 98mm with step, like Roland, Wieland, VHF, Yenadent, Sirona system
Zakonzahn system
Amann Girrbach system

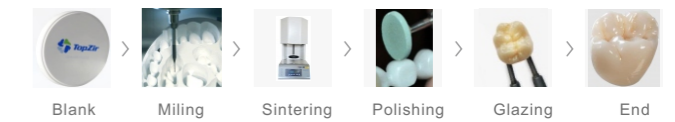
Height

Standard 98 and 95, height of 10, 12, 14, 16, 18, 20, 22, 25mm
Amann Girrbach: height of 12, 14, 16, 18, 20 and 25mm

Indications

Suitable for anterior and full span bridge
Efficiency: high translucency and higher strength blank can
Make both anterior and long bridge with natural looking.
Quick and cost effective for natural-looking restorations

Procedures



Chemical Composition

ZrO ₂ +HfO ₂	86~94%
Y ₂ O ₃	5.8-9.7%
Al ₂ O ₃	≤0.5%
Other oxides	≤0.5%

Physical Characteristics

Density before sintering	3.15-3.25 g.cm-3
Density after sintering	6.07-6.09 g.cm-3
Flexural strength after sintering	1000 Mpa
Translucency	46%
Chemical solubility after sintering	<100 µg.cm-2
Cytotoxicity	0 Level
Radioactivity	<0.1Bq.g-1
Sintering temperature	1450-1500°C



TT preshaded

Topzir Preshaded Top translucency dental zirconia blank



Topzir TT preshaded zirconia blank has highest translucency with good dental aesthetics restorations. It is a reliable zirconia material for anterior restoration without dipping and drying necessary.

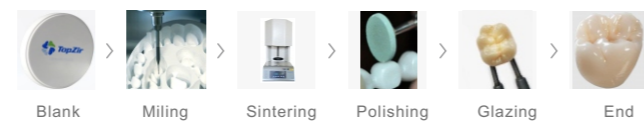
Color	
Compatibility	Roland, Wieland, VHF, Yenadent, Sirona system Zakonzahn system Amann Girrbach system
Height	Standard 98 and 95, height of 10, 12, 14, 16, 18, 20, 22, 25mm Amann Girrbach: height of 12, 14, 16, 18, 20 and 25mm

Indications

.Suitable for anterior, crown and bridges up to 3 units, veneers
Accurate colors to help you with more efficient and better restoration.



Procedures



Chemical Composition

ZrO ₂ +HfO ₂	86~94%
Y ₂ O ₃	5.8~9.7%
Al ₂ O ₃	≤0.5%
Other oxides	≤0.5%

Physical Characteristics

Density before sintering	3.15-3.25 g.cm-3
Density after sintering	6.05-6.07 g.cm-3
Flexural strength after sintering	650 Mpa
Translucency	50%
Chemical solubility after sintering	<100 µg.cm-2
Cytotoxicity	0 Level
Radioactivity	<0.1Bq.g-1
Sintering temperature	1450-1500°C

ST multilayer

Topzir Super translucency multilayer dental zirconia blank



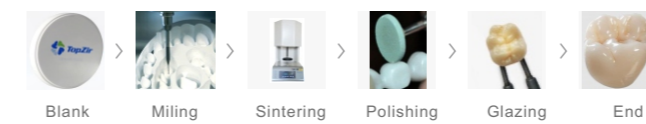
Topzir ST multilayer dental zirconia blank consist four preshaded layers, It is a reliable zirconia material for monolithic restorations. Quick and cost effective for natural color gradations can be created without staining or dipping.

Color	
Compatibility	Open CAD/CAM system 98mm with step, like Roland, Wieland, VHF, Yenadent, Sirona system Zakonzahn system Amann Girrbach system
Height	Standard 98 and 95, height of 10, 12, 14, 16, 18, 20, 22, 25mm Amann Girrbach: height of 12, 14, 16, 18, 20 and 25mm

Indications

. Suitable for crown, bridge, veneers, inlays and onlays
Multilayer accurate colors for a better natural-looking.

Procedures



Chemical Composition

ZrO ₂ +HfO ₂ +Y ₂ O ₃	≥99%
Y ₂ O ₃	4.5~6%
HfO ₂	≤5%
Al ₂ O ₃	≤0.5%
Other oxides	≤0.5%



Physical Characteristics

Density before sintering	3.15-3.25 g.cm-3
Density after sintering	6.05-6.07 g.cm-3
Flexural strength after sintering	1200 Mpa
Translucency	43%
Chemical solubility after sintering	<100 µg.cm-2
Cytotoxicity	0 Level
Radioactivity	<0.1Bq.g-1
Sintering temperature	1500-1550°C

multilayer benefits:
most natural translucent multilayered blocks

ST-plus multilayer

Topzir ST-plus dental zirconia blank



Topzir ST-plus blank is efficient for end users which can make all in one with high translucency and high strength without coloring and glazing in natural esthetic.

Color



Compatibility

Open CAD/CAM system 98mm with step, like Roland, Wieland, VHF, Yenadent, Sirona system
Zakonzahn system
Amann Girrbach system

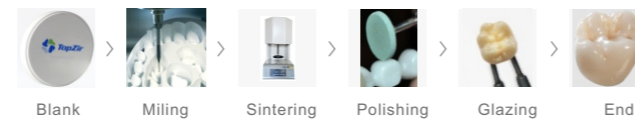
Height

Standard 98 and 95, height of 10, 12, 14, 16, 18, 20, 22, 25mm
Amann Girrbach: height of 12, 14, 16, 18, 20 and 25mm

Indications

Suitable for anterior and full span bridge
Efficacy: high translucency and higher strength block can make both anterior and long bridge with natural looking.
Quick and cost effective for natural-looking restorations

Procedures



Chemical Composition

ZrO ₂ +HfO ₂	86~94%
Y ₂ O ₃	5.8~9.7%
Al ₂ O ₃	≤0.5%
Other oxides	≤0.5%

Physical Characteristics

Density before sintering	3.15-3.25 g.cm-3
Density after sintering	6.07-6.09 g.cm-3
Flexural strength after sintering	1000 Mpa
Translucency	46%
Chemical solubility after sintering	<100 µg.cm-2
Cytotoxicity	0 Level
Radioactivity	<0.1Bq.g-1
Sintering temperature	1450-1500°C



TT multilayer

Topzir TT translucency multilayer dental zirconia blank



Topzir TT multilayer dental zirconia blank are composed of 4 shades color gradations. It has a highest translucency and nature color for milling Anterior, posterior crown, up to 3 units bridges and veneers efficiently.

Color



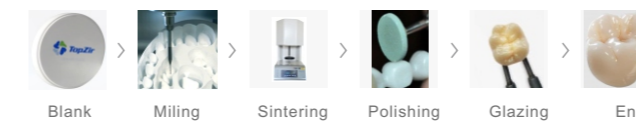
Compatibility

Open CAD/CAM system 98mm with step, like Roland, Wieland, VHF, Yenadent, Sirona system
Zakonzahn system
Amann Girrbach system

Height

Standard 98 and 95, height of 10, 12, 14, 16, 18, 20, 22, 25mm
Amann Girrbach: height of 12, 14, 16, 18, 20 and 25mm

Procedures



Indications

Suitable for anterior, crown and bridges up to 3 units, veneers
Efficacy: one blank covers three shades
Quick and cost effective for natural-looking anterior restorations



Chemical Composition

ZrO ₂ +HfO ₂	86~94%
Y ₂ O ₃	5.8~9.7%
Al ₂ O ₃	≤0.5%
Other oxides	≤0.5%

Physical Characteristics

Density before sintering	3.15-3.25 g.cm-3
Density after sintering	6.05-6.07 g.cm-3
Flexural strength after sintering	650 Mpa
Translucency	50%
Chemical solubility after sintering	<100 µg.cm-2
Cytotoxicity	0 Level
Radioactivity	<0.1Bq.g-1
Sintering temperature	1450-1500°C

4D multilayer

Topzir 4D multilayer dental zirconia blank



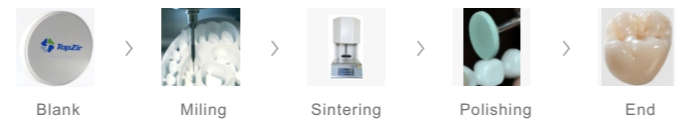
Topzir 4D multilayer blank is gradient in shades, translucency strength and toughness, both functional and Esthetic block for different esthetic restaration.

Color	
Compatibility	Open CAD/CAM system 98mm with step, like Roland, Wieland, VHF, Yenadent, Sirona system, Zakonzahn system, Amann Girrbach system
Height	Standard 98 and 95, height of 10, 12, 14, 16, 18, 20, 22, 25mm Amann Girrbach: height of 12, 14, 16, 18, 20 and 25mm

Indications

Wide range of application, suitable for esthetics restoration to full mouth case.
Life-like esthetic effect with natural looking
Esthetic block can bring you veneer, crown and up to 4 units bridge
Functional block can help you solve a restoration of long bridge over 7 units

Procedures

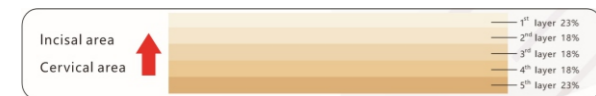


Chemical Composition

ZrO ₂ +HfO ₂	86.3%-94.2%
Er ₂ O ₃	≤2%
Fe ₂ O ₃	≤0.5%
Y ₂ O ₃	5.8%-9.7%
Al ₂ O ₃	≤0.5%
Other oxides	≤0.5%

Physical Characteristics

Density before sintering	≤2.6 g.cm ⁻³
Density after sintering	6.06-6.08 g.cm ⁻³
Flexural strength after sintering	650 Mpa-1100mpa
Translucency	49-42%
Chemical solubility after sintering	<100 μg.cm ⁻²
Cytotoxicity	1500-1550°C
Radioactivity	<0.1Bq.g ⁻¹
Sintering temperature	1450-1550°C



Blank Type	Light	Dark	Strength	Translucency	Toughness
Functional blank	800MPa	1100MPa	47%	44%	>3.5MPa-m ^{1/2}
	600MPa	900MPa	49%	46%	>2.4MPa-m ^{1/2}

Flexible PMMA



Flexible PMMA is Acetal, tooth-colored material idea for removable applications.



Indications

Partial dental frameworks
Provisional Crowns and bridges
Bite splints and night guards
Cosmetic Smile Enhancers
Templates

Highlights

- High tensile and flexural strength
- Fatigue resistant and low moisture absorption
- No thermal conductivity
- Lower mass/strength ratio makes the final removable denture lighter and improves patient comfort
- Reduce processing time by eliminating labor-intensive metal investing and casting process
- Available sizes: Standard 98 and 95, height of 10, 12, 14, 16, 18, 20, 22, 25mm, shades:

Preshaded PMMA



Topzir Temp is a monochromatic PMMA material used for temporary restorations. It offers an esthetic temporary solution that are quick and easy to polish. PMMA blocks are available in A1 A2 A3 shades, clear and pink



Available sizes:
Standard 98mm, height of 10,12,14,16,18,20,22,25mm.

Application:
Temporary Crowns and Bridges

Esthetic temporary solution
A1 A2 A3 shades, clear, pink
Up to 14 units
Flexure strength: ≥ 85 MPa
Shrinkage rate: $\leq 2.2\%$
This product is used only in models of oral soft and hard tissue models or prostheses.

Multilayer PMMA

Topzir Temp is a monochromatic PMMA material used for temporary restorations. Topzir Temp can be used to check the fit and function of a restoration on a model with ease.

Indications
Partially and fully long term temporary crowns and bridges.
Excellent Biocompatibility
Excellent abrasion resistance
Excellent finishing bright surface, good polishing performance after milling
Excellent long term shade stability and esthetic

PEEK



Topzir Polyetheretherketone (PEEK) is a medical material to produce temporary and permanent dental restorations



Available colors:
Natural, White, Yellow, Pink

Available sizes:
Standard 98mm and, height of 10,12,14,16,18,20,22,25mm

Physical Characteristics:

Color	Density (G/cm ³)	Flexure Strength (Mpa)	Flexural Modulus (Gpa)	Impact Strength (kj/m ³)
Natural	1.32	163	4	199
White	1.48	152	5.3	145
Yellow	1.51	154	5.6	162
Pink	1.51	165	5.8	160

Indication:
Hybrid abutments
Cervical gingiva formers
Bar constructions
Implants
Partial dentures
Tertiary constructions
Telescopic crowns
Crowns and bridges
Transversal connectors
Occlusal splints
Denture bases

Advantages:
1. Biocompatibility
2. Biotability
3. Metal-free
4. tasteless
5. light weight
6. lw thermal conductivity

wax

Topzir Wax

Topzir Wax blocks can be used to efficiently produce wax designs for crown and bridge frameworks excellent for full-contour cast or press ceramic restorations. Burns without residue or odor making it suitable for the preparation of molds in casting and ceramic molding processes

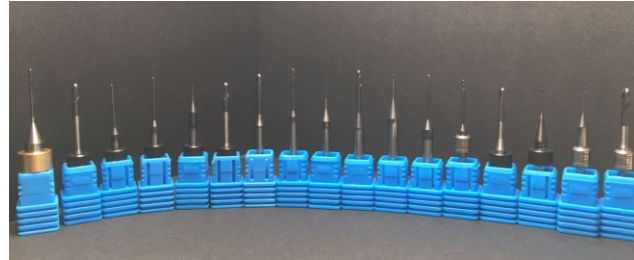
Available color: Blue and White
Sizes available 98mm,95mm,D shape with the heght from 10mm to 30mm
Easy to Cast and press
Easy to carve and modify



milling bur

Topzir CADCAM Milling Bur

Topzir CADCAM milling burs, compatible with all common CADCAM milling systems in dental field, including Roland, Yenadent, VHF, Imes-Icores, Amann Girrbach, Zirkonzahn, Wieland, Sirona, Arum etc. A variety of tool dimensions for roughing, semi-finishing, and finishing are available for milling zirconia, PMMA, wax and Chrome Cobalt with DLC, DC (diamond coating) coated and uncoated endmills.



Milling system	Diameter mm					shank mm	Length mm
Roland	0.6	1.0	1.5	2.0		4.0	50.0
VHF	0.3	0.6	1.0	2.0	2.5	3.0	35.0
VHF	0.3	0.6	1.0	2.0	2.5	3.0	40.0
Wieland	0.3	0.6	1.0	2.0	2.5	3.0	35.0
Wieland	0.3	0.6	1.0	2.0	2.5	3.0	40.0
Zirkonzahn	0.5	1.0	2.0			3.0	57.0
Zirkonzahn	0.5	1.0	2.0			6.0	50.0
Amann Girrbach	0.3	0.6	1.0	2.5		3.0	47.0
Yenadent	0.6	1.0	2.0	2.5		4.0	41.1
Yenadent	0.6	1.0	2.0	2.5		4.0	45.5
Imes-Icores	0.6	1.0	2.0	2.5		3.0	48.0
Imes-Icores	0.6	1.0	2.0	2.5		6.0	50.0
Dentmill	0.3	0.6	0.8	1.0	2.0	3.0	38.1
Lava	0.6	1.0	2.0			4.0	38.0
Sirona	0.5	1.0	2.0	2.5		3.0	44.0
Arum	0.6	1.0	2.0			6.0	50.0
Arum	0.6	1.0	2.0			4.0	50.0



grinder

Diamond stone grinder for zirconia



The diamond stone grinder is applied for zirconia polishing without water cooling. It has high abrasion rate for dry rough and soft adjustment work

R.P.M: 7000-15000/min						
Max R.P.M: 25000/min						
Grit: medium Packin(pcs):1						
Item No.:	SDH201	SDH211	SDH221	SDH231	SDH241	SDH161
Size φ*L(mm):	2.5*7	3*7	3*7	3*7	3.5*11	4*7
R.P.M: 7000-15000/min						
Max R.P.M: 25000/min						
Grit: medium Packin(pcs):1						
Item No.:	SDH171	SDH141	SDH151	SDH251	SDH261	SDH021
Size φ*L(mm):	4*4	4*7	4*7	4*7	4*11	4*13
R.P.M: 7000-15000/min						
Max R.P.M: 25000/min						
Grit: medium Packin(pcs):1						
Item No.:	SDH181	SDH041	SDH031	SDH051	SDH191	SDH111
Size φ*L(mm):	6.5*4	7*8	5*13	6.5*13	11*4	12*2
R.P.M: 7000-15000/min						
Max R.P.M: 25000/min						
Grit: medium Packin(pcs):1						
Item No.:	SDH271	SDH281	SDH061	SDH131	SDH1291	SDH081
Size φ*L(mm):	12*3	12*0.7	13*7	16*0.7	16*2	16*3.2
R.P.M: 7000-12000/min						
Max R.P.M: 20000/min						
Grit: medium Packin(pcs):1						
Item No.:	SDH071	SDH091	SDH101			
Size φ*L(mm):	22*0.7	22*2	22*4.2			