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Dental Materials

CATALOG



SHANGHAI JINY ELECTROMECHANICAL TECHNOLOGY CO.,LTD

Indication Guide

Suitable for All Indications

	HT	HT-C	ST	ST-C	ST-ML	SHT	SHT-C	SHT-ML	UT	UT-C	UT-ML	3D Pro	3D Functional	3D Aesthetic	4D Pro
Veneers	X	X	X	X	X	X	X	X	✓	✓	✓	✓	X	✓	✓
Anterior Single Crown	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Anterior 3-unit Bridge	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Posterior Single Crown	✓	✓	✓	✓	✓	✓	✓	✓	X	X	X	✓	✓	X	✓
Posterior 3-unit Bridge	✓	✓	✓	✓	✓	✓	✓	✓	X	X	X	✓	✓	X	✓
6-unit Bridge	✓	✓	✓	✓	✓	✓	✓	✓	X	X	X	✓	✓	X	✓
10-unit Bridge	✓	✓	✓	✓	✓	✓	✓	✓	X	X	X	✓	✓	X	✓
Half-Arch	✓	✓	✓	✓	✓	✓	✓	✓	X	X	X	✓	✓	X	✓
Coping Crown	✓	✓	✓	✓	✓	✓	✓	✓	X	X	X	X	✓	X	X
3-unit Bridge with Coping Framework	✓	✓	✓	✓	✓	✓	✓	✓	X	X	X	X	✓	X	X
Implant	✓	✓	✓	✓	✓	✓	✓	✓	X	X	X	X	✓	X	X

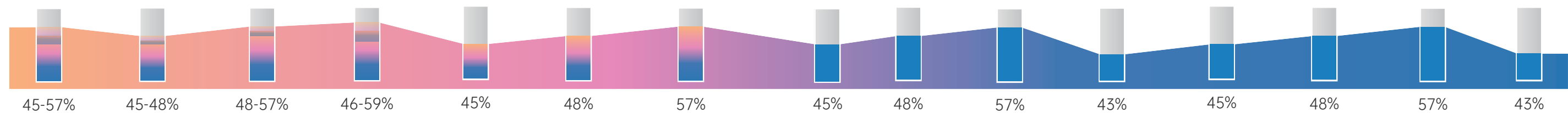
✓ Very suitable ✓ Available X Unavailable

Zirconia List

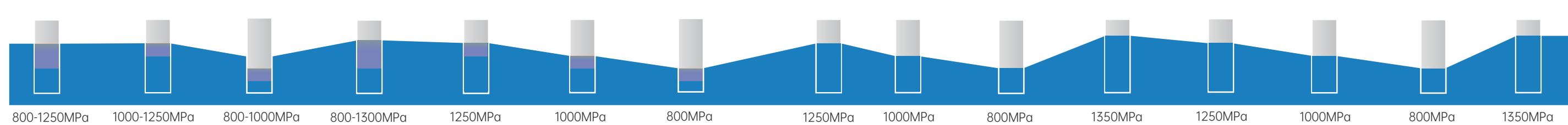
Many different types

3D Pro	3D Functional	3D Aesthetic	4D Pro	ST-ML	SHT-ML	UT-ML	ST-C	SHT-C	UT-C	HT-C	ST	SHT	UT	HT
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Translucency



Strength



Shades

A1\A2\A3\A3.5\A4
B1\B2\B3\B4
C1\C2\C3\C4

D2\D3\D4
BL1\BL2\BL3\BL4

A1\A2\A3\A3.5\A4
B1\B2\B3\B4
C1\C2\C3\C4
D2\D3\D4

White

Smile

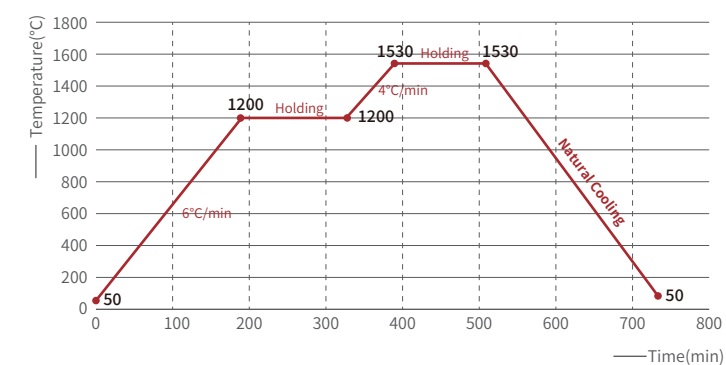
The perfect synergy of **monolithic strength** and **lifelike aesthetics**.

Zirconia Sintering Programme

- All series except the HT series support 1-hour fast sintering for single crowns and 2-hour fast sintering for 2–3-unit bridges.
- Recommended sintering temperature: 1530°C.

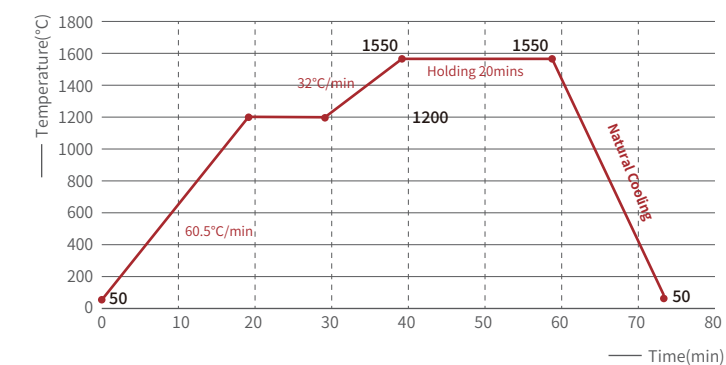
Ordinary Sintering Curve

STEP	Start temperature(°C)	End temperature(°C)	Time(min)
Step1	50	1200	190
Step2	1200	1200	120
Step3	1200	1530	80
Step4	1530	1530	120
Step5	1530	50	Natural Cooling



Rapid Sintering Curve

STEP	Start temperature(°C)	End temperature(°C)	Time(min)
Step1	50	1200	19
Step2	1200	1200	10
Step3	1200	1550	10
Step4	1550	1550	20
Step5	1550	50	Natural Cooling



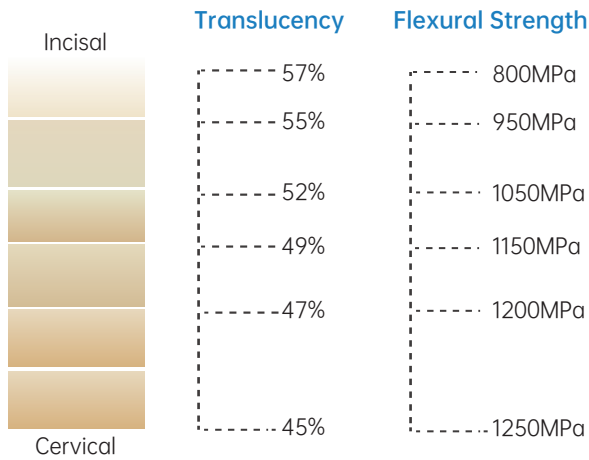
*Sintering temperatures are recommendations. If necessary, carry out a trial sintering cycle and adapt the sintering temperatures or times as needed.
Select a proper high-temperature sintering furnace to sinter the restorations.
Please also refer to the operating instructions of the respective sintering furnace.



3D PRO Multilayer zirconia block

Highlights:

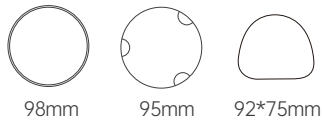
- Safe and comfortable,we use 100% Sinocera Powder
- High translucency and gradient
- Flexural translucency and strength



- Suit for more Indications
- 6 layers of color gradients
- Closer to natural tooth color



Disc system:



Translucency:45-57%

Strength:800-1250MPa

Size:10/12/14/16/18/20/22/25/30mm

Shades:



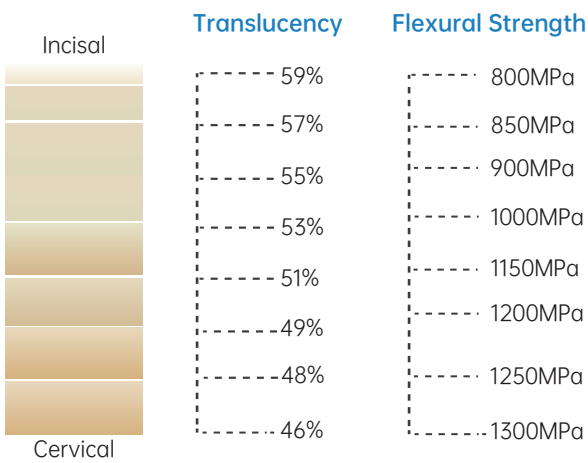
Physical Characteristics		Chemical Components	
Density after sintering	≥6.05g/cm ³	ZrO ₂ + HfO ₂ + Y ₂ O ₃	≥99%
Fracture toughness	≥5.0Mpa.m ^{1/2}	Y ₂ O ₃	4.5%-8.0%
Flexural strength after sintering	(Hv10) 1250	Al ₂ O ₃	< 0.15%
Sintering temperature	1530℃	Other Oxides	< 0.5%



4D PRO Multilayer zirconia block

Highlights:

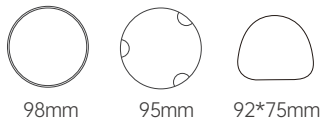
- Pre staining, balancing strength and transparency
- Natural gradient permeability, simple operation, stable and efficient
- Aesthetic effect closer to natural teeth, preferred for all zirconium posterior teeth, suitable for immediate restoration beside chairside.



- Suit for more Indications
- 8 layers of color gradients
- Closer to natural tooth color



Disc system:



Translucency:46-59%

Strength:800-1300MPa

Size:10/12/14/16/18/20/22/25/30mm

Shades:



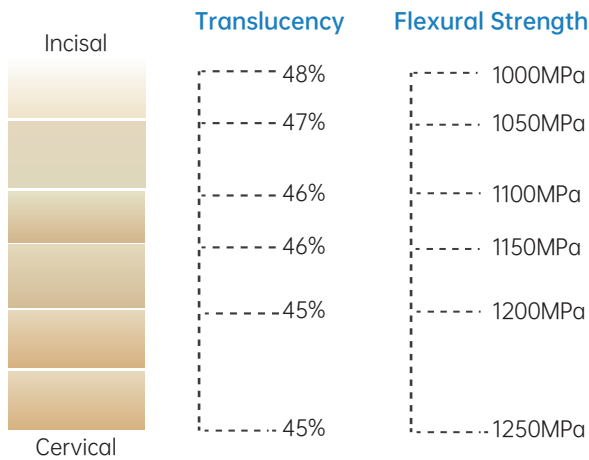
Physical Characteristics		Chemical Components	
Density after sintering	≥6.05g/cm ³	ZrO ₂ + HfO ₂ + Y ₂ O ₃	≥99%
Fracture toughness	≥5.0Mpa.m ^{1/2}	Y ₂ O ₃	4.5%-8.0%
Flexural strength after sintering	(Hv10) 1250	Al ₂ O ₃	< 0.15%
Sintering temperature	1530℃	Other Oxides	< 0.5%



3D-functional Multilayer zirconia block

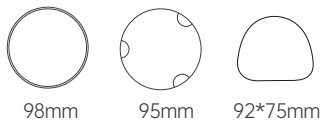
Highlights:

- Safe and comfortable,we use 100% Sinocera Powder
- High translucency and gradient
- Lexural translucency and strength



- Suit for more Indications
- 6 layers of color gradients
- Closer to natural tooth color

Disc system:

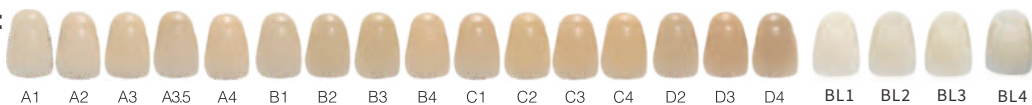


Translucency:45-48%

Strength:1000-1250MPa

Size:10/12/14/16/18/20/22/25/30mm

Shades:



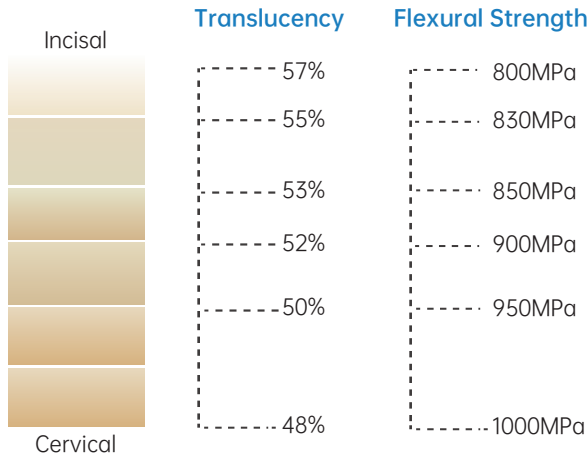
Physical Characteristics		Chemical Components	
Density after sintering	≥6.05g/cm ³	ZrO ₂ + HfO ₂ + Y ₂ O ₃	≥99%
Fracture toughness	≥5.0Mpa.m ^{1/2}	Y ₂ O ₃	4.5%-8.0%
Flexural strength after sintering	(Hv10) 1250	Al ₂ O ₃	< 0.15%
Sintering temperature	1530℃	Other Oxides	< 0.5%



3D-Aesthetic Multilayer zirconia block

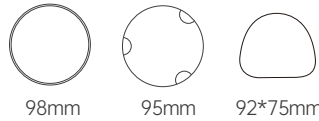
Highlights:

- Pre staining, balancing strength and transparency
- Natural gradient permeability, simple operation, stable and efficient
- Aesthetic effect closer to natural teeth, preferred for all zirconium posterior teeth, suitable for immediate restoration beside chairside.



- Suit for more Indications
- 6 layers of color gradients
- Closer to natural tooth color

Disc system:



Translucency:48-57%

Strength:800-1000MPa

Size:10/12/14/16/18/20/22/25/30mm

Shades:

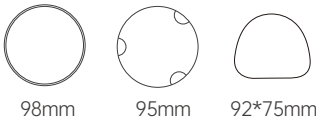


Physical Characteristics		Chemical Components	
Density after sintering	≥6.05g/cm ³	ZrO ₂ + HfO ₂ + Y ₂ O ₃	≥99%
Fracture toughness	≥5.0Mpa.m ^{1/2}	Y ₂ O ₃	4.5%-8.0%
Flexural strength after sintering	(Hv10) 1250	Al ₂ O ₃	< 0.15%
Sintering temperature	1530℃	Other Oxides	< 0.5%

ST Series zirconia block

ST-ML The representative work of gradient colors, the king of cost-effectiveness.

Disc system:



Translucency:45%

Strength:1250MPa

Size:10/12/14/16/18/20/22/25/30mm

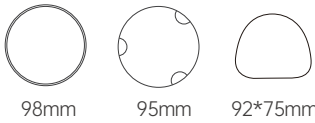
Shades:



SHT Series zirconia block

SHT-ML This material has comprehensive indications, especially for long span bridges. The excellent masking effect makes it an ideal choice for covering metal color.

Disc system:



Translucency:48%

Strength:1000MPa

Size:10/12/14/16/18/20/22/25/30mm

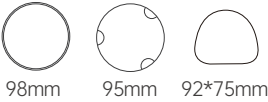
Shades:



ST-C

Super high translucent colored zirconia

Disc system:



Translucency:45%

Strength:1250MPa

Size:10/12/14/16/18/20/22/25/30mm

Shades:



ST

Super high translucent zirconia

Disc system:



Translucency:45%

Strength:1250MPa

Size:10/12/14/16/18/20/22/25/30mm

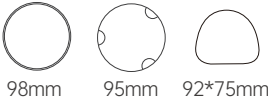
Shades:White



SHT-C

Super high translucent colored zirconia

Disc system:



Translucency:48%

Strength:1000MPa

Size:10/12/14/16/18/20/22/25/30mm

Shades:



SHT

Super high translucent zirconia

Disc system:



Translucency:48%

Strength:1000MPa

Size:10/12/14/16/18/20/22/25/30mm

Shades:White

Physical Characteristics	ST-ML	ST-C	ST
Density after sintering	≥6.05g/cm ³	≥6.05g/cm ³	≥6.05g/cm ³
Fracture toughness	≥5.0Mpa.m ^{1/2}	≥5.0Mpa.m ^{1/2}	≥5.0Mpa.m ^{1/2}
Flexural strength after sintering	(Hv10) 1250	(Hv10) 1250	(Hv10) 1250
Sintering temperature	1530℃	1530℃	1530℃
Chemical Components			
ZrO ₂ + HfO ₂ + Y ₂ O ₃	≥99%	≥99%	≥99%
Y ₂ O ₃	7.0%-7.8%	7.0%-7.8%	7.0%-7.8%
Al ₂ O ₃	< 0.15%	< 0.15%	< 0.15%
Other Oxides	< 0.5%	< 0.5%	< 0.5%

Physical Characteristics	SHT-ML	SHT-C	SHT
Density after sintering	≥6.05g/cm ³	≥6.05g/cm ³	≥6.05g/cm ³
Fracture toughness	≥5.0Mpa.m ^{1/2}	≥5.0Mpa.m ^{1/2}	≥5.0Mpa.m ^{1/2}
Flexural strength after sintering	(Hv10) 1250	(Hv10) 1250	(Hv10) 1250
Sintering temperature	1530℃	1530℃	1530℃
Chemical Components			
ZrO ₂ + HfO ₂ + Y ₂ O ₃	≥99%	≥99%	≥99%
Y ₂ O ₃	7.0%-7.8%	7.0%-7.8%	7.0%-7.8%
Al ₂ O ₃	< 0.15%	< 0.15%	< 0.15%
Other Oxides	< 0.5%	< 0.5%	< 0.15%

UT Series zirconia block

UT-ML The UT multilayer zirconia features a seamless color gradient from the incisal edge to the cervical area, mimicking the natural translucency and shade transition of vital teeth.

Disc system:



98mm



95mm



92*75mm

Translucency:57%

Strength:800MPa

Size:10/12/14/16/18/20/22/25/30mm

Shades:



A1 A2 A3 A35 A4 B1 B2 B3 B4 C1 C2 C3 C4 D2 D3 D4 BL1 BL2 BL3 BL4



HT Series zirconia block

HT-C Offering an optimal balance of aesthetics and durability.

Disc system:



98mm



95mm



92*75mm

Translucency:43%

Strength:1350MPa

Size:10/12/14/16/18/20/22/25/30mm

Shades:



A1 A2 A3 A35 A4 B1 B2 B3 B4 C1 C2 C3 C4 D2 D3 D4





UT-C

Achieves an optimal balance of durability and aesthetics

Disc system:



98mm



95mm



92*75mm

Translucency:57%

Strength:800MPa

Size:10/12/14/16/18/20/22/25/30mm

Shades:



A1 A2 A3 A35 A4 B1 B2 B3 B4 C1 C2 C3 C4 D2 D3 D4 BL1 BL2 BL3 BL4



UT

Achieves an optimal balance of durability and aesthetics

Disc system:



98mm



95mm



92*75mm

Translucency:57%

Strength:800MPa

Size:10/12/14/16/18/20/22/25/30mm

Shades:White

HT

43% translucency, 1350 MPa flexural strength — balancing aesthetics and strength for reliable clinical performance.



Disc system:



98mm



95mm



92*75mm

Translucency:43%

Strength:1350MPa

Size:10/12/14/16/18/20/22/25/30mm

Shades:White

Physical Characteristics	UT-ML	UT-C	UT
Density after sintering	≥6.00g/cm ³	≥6.00g/cm ³	≥6.00g/cm ³
Fracture toughness	≥5.0Mpa.m ^{1/2}	≥5.0Mpa.m ^{1/2}	≥5.0Mpa.m ^{1/2}
Flexural strength after sintering	(Hv10) 1250	(Hv10) 1250	(Hv10) 1250
Sintering temperature	1530℃	1530℃	1530℃
Chemical Components			
ZrO ₂ + HfO ₂ + Y ₂ O ₃	≥99%	≥99%	≥99%
Y ₂ O ₃	9.0%-11.0%	9.0%-11.0%	9.0%-11.0%
Al ₂ O ₃	< 0.15%	< 0.15%	< 0.15%
Other Oxides	< 0.5%	< 0.5%	< 0.5%

Physical Characteristics	HT-C	HT
Density after sintering	≥6.05g/cm ³	≥6.05g/cm ³
Fracture toughness	≥5.0Mpa.m ^{1/2}	≥5.0Mpa.m ^{1/2}
Flexural strength after sintering	(Hv10) 1250	(Hv10) 1250
Sintering temperature	1530℃	1530℃
Chemical Components		
ZrO ₂ + HfO ₂ + Y ₂ O ₃	≥99%	≥99%
Y ₂ O ₃	3.0%-5.0%	3.0%-5.0%
Al ₂ O ₃	< 0.15%	< 0.15%
Other Oxides	< 0.5%	< 0.5%