

Soreal zir

PRODUCT CATALOG

ZIRCONIA

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zir

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Soreal Zir								
Product	HT PLUS	HT COLOR	ST PLUS	ST COLOR	ST MULTI	SHT MULTI	4D Multilayer	TT
Strength	≥1300 MPa	≥1300 MPa	≥1200 MPa	≥1200 MPa	≥1200 MPa	≥900 MPa	Incisal 600Mpa Dentin 1200Mpa	≥600 MPa
Translucency	41%	41%	43%	43%	43%	46%	Incisal 48% Dentin 41%	49%
Colors	White	A1 A2 A3 A3.5 A4 B1 B2 B3 B4 C1 C2 C3 C4 D2 D3 D4 OM1 OM2 OM3	White	A1 A2 A3 A3.5 A4 B1 B2 B3 B4 C1 C2 C3 C4 D2 D3 D4 OM1 OM2 OM3	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 BL1 BL2 BL3 BL4	A1 A2 A3 A3.5 A4 B1 B2 B3 B4 C1 C2 C3 C4 D2 D3 D4 BL1 BL2 BL3 BL4	White
Disc system	 98mm			 95mm			 92*75mm	
Thickness	10, 12, 14, 16, 18, 20, 22, 25 mm							

HT PLUS

HT PLUS has high strength and opacity after sintering, and is more suitable for coping.



ADVANTAGES

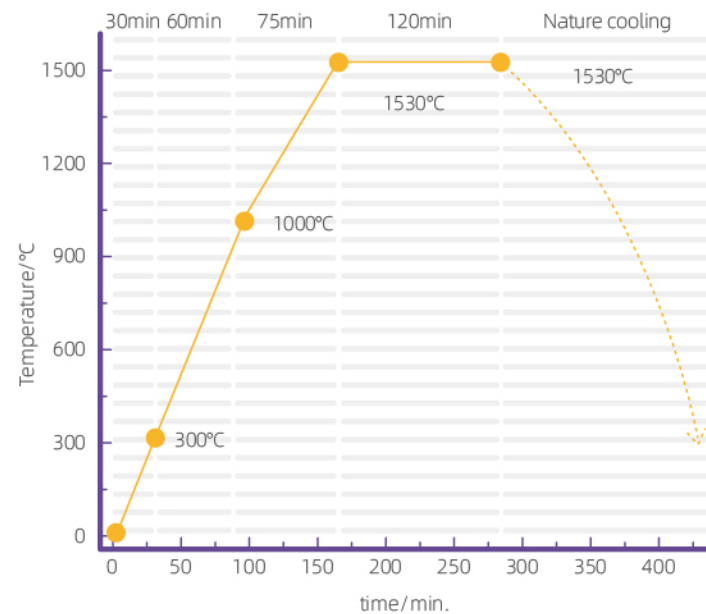
High strength

Suitable for coping

PROPERTIES

Item	Typical Value
Al ₂ O ₃	≤0.5%
Y ₂ O ₃	4.5%-6%
Chemical solubility	<100μg/cm ²
Density	≥6.06g/cm ³
Hardness	≥1200(HV5)
Aging phase transformation	Tm<20%
Average grain size	~280nm
Flexural strength	≥1300 MPa

SINTERING CURVE



SPECIFICATIONS

Specifications	D98-10	D98-12	D98-14	D98-16	D98-18	D98-20	D98-22	D98-25
Color	White, need to match special coloring liquid							

INDICATIONS

Single-unit framework up to multi-unit frameworks

HT COLOR

HT COLOR has high strength and opacity after sintering, and is more suitable for coping.



ADVANTAGES

High strength

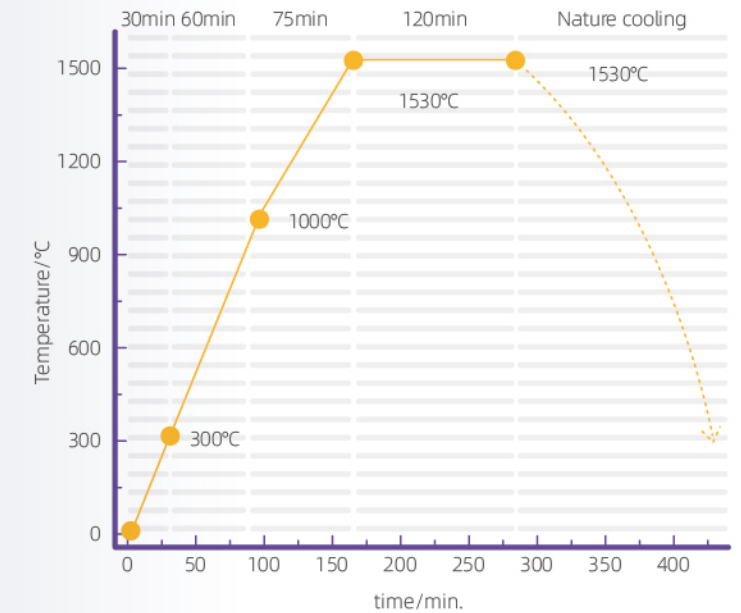
Controllable color

Suitable for coping

PROPERTIES

Item	Typical Value
Al ₂ O ₃	≤0.10%
Fe ₂ O ₃	<0.10%
Co ₃ O ₄	<0.10%
Pr ₂ O ₃	<0.10%
Chemical solubility	<100μg/cm ²
Density	≥6.06g/cm ³
Hardness	≥1200(HV5)
Aging phase transformation	Tm<20%
Average grain size	~280nm
Flexural strength	≥1300 MPa

SINTERING CURVE



SPECIFICATIONS

Specifications	D98-10	D98-12	D98-14	D98-16	D98-18	D98-20	D98-22	D98-25
Color	A1、A2、A3、A3.5、A4、B1、B2、B3、B4、C1、C2、C3、C4、D2、D3、D4、OM1、OM2、OM3							

INDICATIONS

Single-unit framework up to multi-unit frameworks

ST PLUS

ST PLUS block, with high strength and medium translucency, excellent anti-aging properties. This combination enables a maximum variety of indications for the fabrication of restorations.



ADVANTAGES

High strength ≥ 1200 MPa

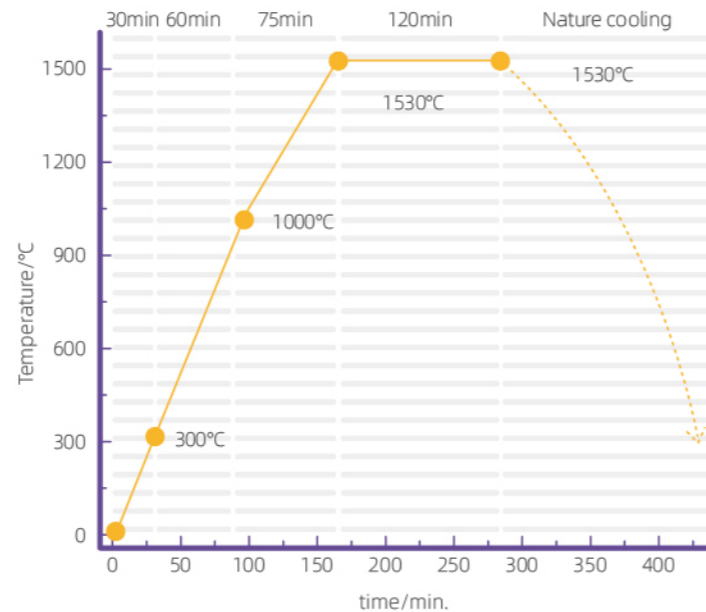
Medium translucency 43%

Get the best staining technique with personalized coloring liquid

PROPERTIES

Item	Typical Value
Al ₂ O ₃	$\leq 0.5\%$
Y ₂ O ₃	4.5%-6%
Chemical solubility	$< 100\mu\text{g}/\text{cm}^2$
Density	$\geq 6.06\text{g}/\text{cm}^3$
Hardness	$\geq 1200(\text{HV}5)$
Aging phase transformation	Tm $< 20\%$
Average grain size	$\sim 280\text{nm}$
Flexural strength	≥ 1200 MPa

SINTERING CURVE



SPECIFICATIONS

Specifications	D98-10	D98-12	D98-14	D98-16	D98-18	D98-20	D98-22	D98-25
Color	White, need to match special coloring liquid							

INDICATIONS

Inlays, Veneers, Anterior Crowns, Posterior Crowns, Multi-Unit Bridges, Implant Superstructures

ST COLOR

ST COLOR block is a precolored zirconia, with high strength and medium translucency, excellent anti-aging properties. This combination enables a maximum variety of indications for the fabrication of restorations.



ADVANTAGES

High strength

A perfect ratio between cubic and tetragonal zirconium oxide particles

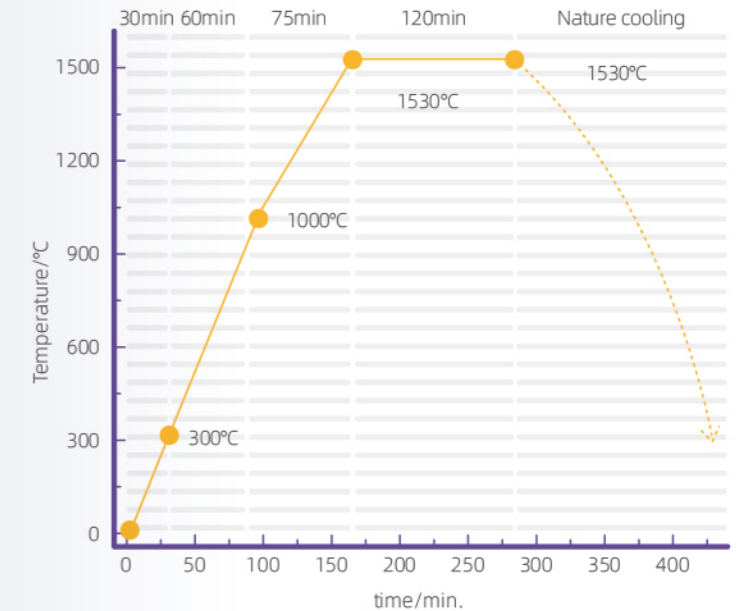
Durability

Uniform distribution of micronutrient, full encapsulation of zirconia, improve the aging properties of materials

PROPERTIES

Item	Typical Value
Al ₂ O ₃	$\leq 0.10\%$
Fe ₂ O ₃	$< 0.10\%$
Co ₃ O ₄	$< 0.10\%$
Pr ₂ O ₃	$< 0.10\%$
Chemical solubility	$< 100\mu\text{g}/\text{cm}^2$
Density	$\geq 6.06\text{g}/\text{cm}^3$
Hardness	$\geq 1200(\text{HV}5)$
Aging phase transformation	Tm $< 20\%$
Average grain size	$\sim 280\text{nm}$
Flexural strength	≥ 1200 MPa

SINTERING CURVE



SPECIFICATIONS

Specifications	D98-10	D98-12	D98-14	D98-16	D98-18	D98-20	D98-22	D98-25
Color	A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, OM1, OM2, OM3							

INDICATIONS

Inlays, Veneers, Anterior Crowns, Posterior Crowns, Multi-Unit Bridges, Implant Superstructures

ST MULTI

ST MULTI block is a precolored zirconia, with high strength and natural color gradient, excellent anti-aging properties, suitable for full contour crown and bridge.



ADVANTAGES

Natural color gradient

Efficient fabrication of natural looking restorations

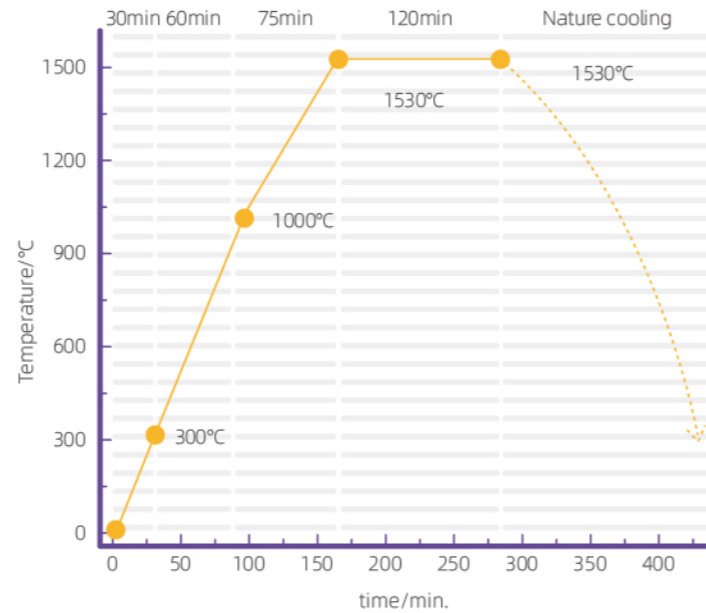
High strength

Wide range of indications

PROPERTIES

Item	Typical Value
Al ₂ O ₃	≤0.10%
Fe ₂ O ₃	<0.10%
Co ₃ O ₄	<0.10%
Pr ₂ O ₃	<0.10%
Chemical solubility	<100µg/cm ²
Density	≥6.06g/cm ³
Hardness	≥1200(HV5)
Aging phase transformation	Tm<20%
Average grain size	~280nm
Flexural strength	≥1200 MPa

SINTERING CURVE



SPECIFICATIONS

Specifications	D98-10	D98-12	D98-14	D98-16	D98-18	D98-20	D98-22	D98-25
Color	A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, BL1, BL2, BL3, BL4							

INDICATIONS

Inlays, Veneers, Anterior Crowns, Posterior Crowns, Multi-Unit Bridges, Implant Superstructures

SHT MULTI

SHT MULTI provides a flowing color gradation from cervical to incisal. The manufacture of aesthetic monoliths has never been this efficient before.



ADVANTAGES

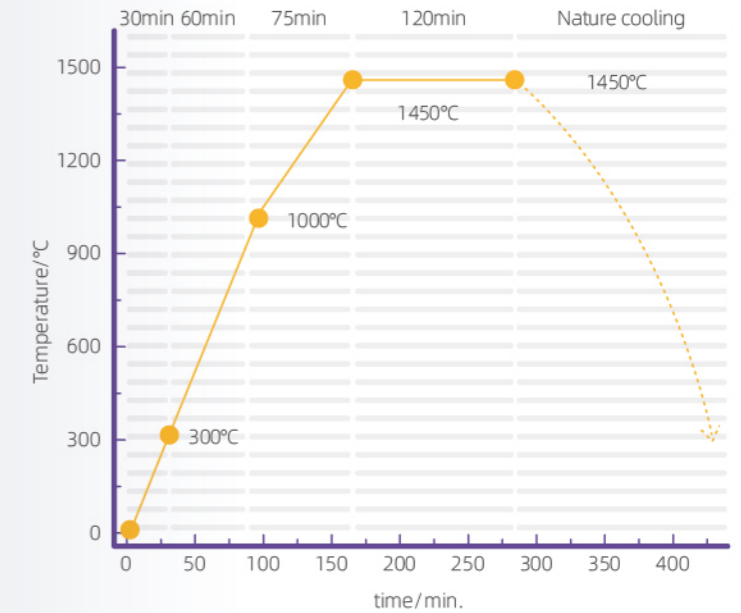
High aesthetic monolithic crowns and bridges

Ideal balance of stability and aesthetics

PROPERTIES

Item	Typical Value
Al ₂ O ₃	≤0.10%
Fe ₂ O ₃	<0.10%
Co ₃ O ₄	<0.10%
Pr ₂ O ₃	<0.10%
Chemical solubility	<100µg/cm ²
Density	≥6.06g/cm ³
Hardness	≥1200(HV5)
Aging phase transformation	Tm<20%
Average grain size	~280nm
Flexural strength	≥900 MPa

SINTERING CURVE



SPECIFICATIONS

Specifications	D98-10	D98-12	D98-14	D98-16	D98-18	D98-20	D98-22	D98-25
Color	A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, BL1, BL2, BL3, BL4							

INDICATIONS

Inlays, Veneers, Anterior Crowns, Posterior Crowns, Multi-Unit Bridges, Implant Superstructures

4D MULTILAYER

4D Multilayer is a zirconia block based on bionic technology. The block has a four-dimensional gradient effect, including strength, transparency, colors and toughness. The specially developed multi concept changes the mechanical and light-optical properties of the material in a smooth gradient from cervical to incisal.



ADVANTAGES

- Natural** This innovative material incorporates 6 layers of gradients, ensuring optimal color and transparency, resulting in a remarkably natural appearance.
- Transparent** The 4D multilayer zirconia prioritizes transparency by minimizing the use of coloring ions.
- Easy** The restoration can be made by simple polishing or glazing after sintering.

LAYERS	First floor	Second floor	Third floor	Fourth floor	Fifth Floor	Sixth Floor
LOCATION	Cut End	↑	↑	↑	↑	Neck
TRANSPARENCY%	~48%	~46%	~45%	~44%	~43%	~41%
STRENGTH/MPa	600	700	800	900	1100	1200

PROPERTIES

Item	Al ₂ O ₃	Fe ₂ O ₃	Co ₃ O ₄	Pr ₂ O ₃	Chemical solubility	Density	Hardness	Aging phase transformation	Average grain size	Sintering temperature
Typical Value	≤0.05%	<0.01%	<0.01%	<0.01%	<100ug/cm ²	≥6.02g/cm ³	≥1200 (HV5)	Tm<20%	~320nm	1480°C

SPECIFICATIONS

Specifications	D98-10	D98-12	D98-14	D98-16	D98-18	D98-20	D98-22	D98-25
Color	A1、A2、A3、A3.5、A4、B1、B2、B3、B4、C1、C2、C3、C4、D2、D3、D4、BL1、BL2、BL3、BL4							

INDICATIONS

Veneers、Anterior Crowns、Posterior Crowns、Three-Unit Bridge

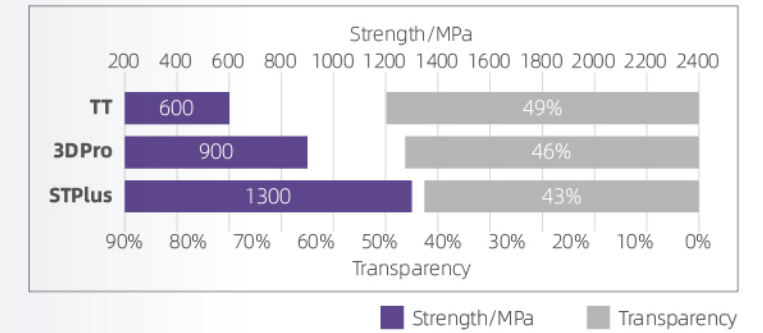
TT

TT is a highly biocompatible material with outstanding transparency(49%). This material is perfect for all highly aesthetic treatments in anterior tooth region.



ADVANTAGES

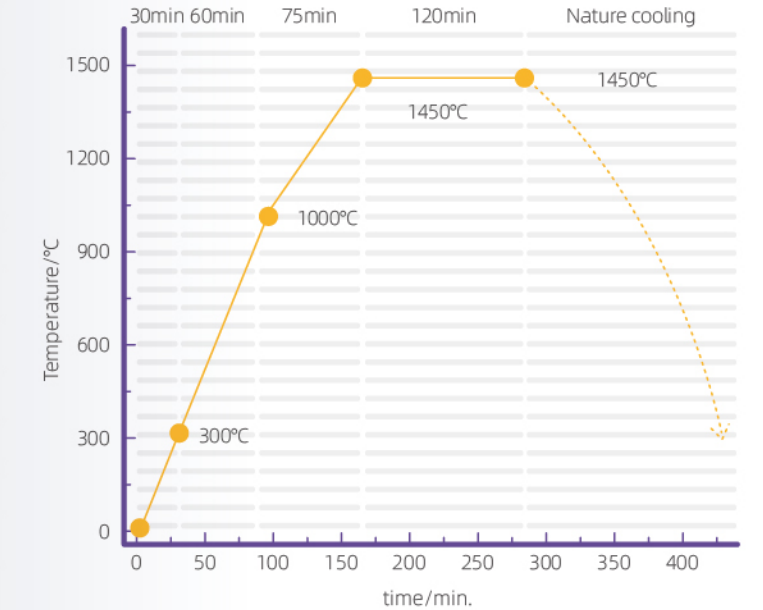
- High transparency**
- High aesthetic veneering**



PROPERTIES

Item	Typical Value
Al ₂ O ₃	≤0.03%
Fe ₂ O ₃	<0.03%
Co ₃ O ₄	<0.01%
Pr ₂ O ₃	<0.01%
Chemical solubility	<100ug/cm ²
Density	≥6.01g/cm ³
Hardness	≥1200(HV5)
Aging phase transformation	Tm<20%
Average grain size	~450nm
Flexural strength	≥600MPa

SINTERING CURVE



SPECIFICATIONS

Specifications	D98-10	D98-12	D98-14	D98-16	D98-18	D98-20	D98-22	D98-25
Color	White, need to match special coloring liquid							

INDICATIONS

Veneers、Anterior Crowns、Posterior Crowns、Three-Unit Bridge