

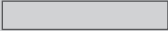


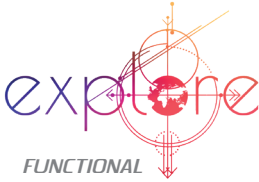
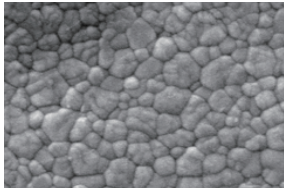
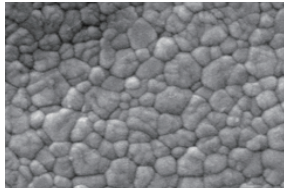
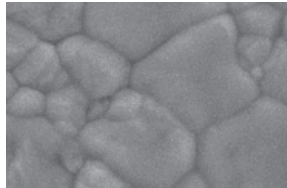
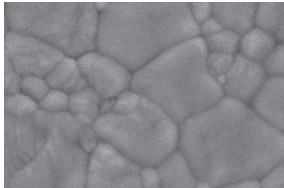
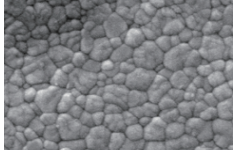
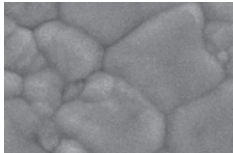
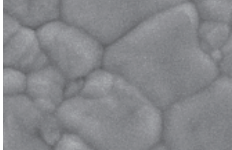
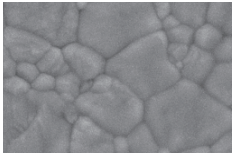
ZIRCONIA

All Zirconia You Need



All Zirconia You Need

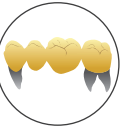
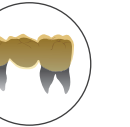
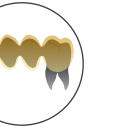
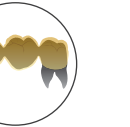
	3Y-TZP-A	3Y-TZP	4Y-PSZ	5Y-PSZ	3Y-TZP-4Y-PSZ	4Y-PSZ-5Y-PSZ
 WHITE	 HT White	 ST White	 TT-ONE	 TT White		
 PRE-SHADED		 ST Pre-shaded	 TT-ONE Pre-shaded			
 MULTILAYER		 ST Multilayer	 TT-ONE Multilayer	 TT Multilayer	 Functional Explore	 Esthetic Explore

Zirconia Type	HT	ST	TT-ONE	TT		
Translucency	39%	43%	47%	49%	43%-46.6%	47%-48.8%
Strength	1200MPa	1200MPa	1000MPa	600MPa	1027MPa-1300MPa	727MPa-1000MPa
Restoration Type	Coping	Coping Full Contour Crown	Full Contour Crown	Full Contour Crown (Aesthetic)	Full Contour Crown	Full Contour Crown (Aesthetic)
Sintering Temperature	1530°C	1530°C	1480°C	1450°C	1480°C	1480°C
Microstructure					 	 

>> Specification

Applied For	Specification(mm)	Package	HT White	ST White	ST Pre-shaded	ST Multilayer	TT White	TT Multilayer	TT-ONE Pre-shaded	TT-ONE Multilayer	Functional Explore	Esthetic Explore
 Open CAD/CAM System	D98x10(stepless)	1pc/box	✓	✓	✓		✓					
	D98x12(step&stepless)	1pc/box	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	D98x14(step&stepless)	1pc/box	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	D98x16(step&stepless)	1pc/box	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	D98x18(step&stepless)	1pc/box	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	D98x20(step&stepless)	1pc/box	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	D98x22(step&stepless)	1pc/box	✓	✓	✓		✓					
	D98x25(step&stepless)	1pc/box	✓	✓	✓		✓					
 Cerec in lab (Sirona)System	20x14x15	12pcs/box	✓	✓	✓		✓					
	20x19x15	10pcs/box	✓	✓	✓	✓	✓		✓	✓	✓	✓
	40x14x15	8pcs/box	✓	✓	✓		✓					
	40x19x15	6pcs/box	✓	✓	✓	✓	✓		✓	✓	✓	✓
	55x19x15	5pcs/box	✓	✓	✓		✓					
	65x25x22	4pcs/box	✓	✓	✓		✓					
	65x40x22	2pcs/box	✓	✓	✓		✓					
	85x40x22	2pcs/box	✓	✓	✓		✓					
 Zirkonzahn CAD/CAM System	D95x10	1pc/box	✓	✓	✓		✓					
	D95x12	1pc/box	✓	✓	✓		✓					
	D95x14	1pc/box	✓	✓	✓	✓	✓		✓	✓	✓	✓
	D95x16	1pc/box	✓	✓	✓	✓	✓		✓	✓	✓	✓
	D95x18	1pc/box	✓	✓	✓	✓	✓		✓	✓	✓	✓
	D95x20	1pc/box	✓	✓	✓		✓					
	D95x22	1pc/box	✓	✓	✓		✓					
	D95x25	1pc/box	✓	✓	✓		✓					
 Amann Girrbach CAD/CAM System	89x71x10	1pc/box	✓	✓	✓		✓					
	89x71x12	1pc/box	✓	✓	✓		✓					
	89x71x14	1pc/box	✓	✓	✓	✓	✓		✓	✓	✓	✓
	89x71x16	1pc/box	✓	✓	✓	✓	✓		✓	✓	✓	✓
	89x71x18	1pc/box	✓	✓	✓	✓	✓		✓	✓	✓	✓
	89x71x20	1pc/box	✓	✓	✓		✓					
	89x71x22	1pc/box	✓	✓	✓		✓					
	89x71x25	1pc/box	✓	✓	✓		✓					

>> Indication Guide

	 Veneers	 Inlays/onlays	 Full contour crown anterior tooth	 Bridge anterior tooth (3 units)	 Full contour crown posterior tooth	 Bridge posterior tooth (3 units)		 Full contour bridge (4 units)	 Full contour bridge (≥4 units)	 Reduced crown anterior tooth	 Reduced bridge anterior tooth (3 units)	 Reduced crown posterior tooth	 Reduced bridge posterior tooth (3 units)	 Reduced bridge posterior tooth (4units)	 Reduced bridge posterior tooth (≥4units)
HT White	●	●	●	●	●	●		●	●	★	★	★	★	★	★
ST White	●	●	●	●	✓	✓		✓	★	★	★	★	★	★	★
ST Pre-shaded	●	●	●	●	✓	✓		✓	★	★	★	★	★	★	★
ST-Multilayer	●	●	●	●	✓	✓		✓	★	★	★	★	★	★	★
TT-ONE	●	●	✓	✓	★	★		★	✓	✓	✓	✓	✓	✓	●
TT-ONE Preshaded	●	●	✓	✓	★	★		★	✓	✓	✓	✓	✓	✓	●
TT-One Multilayer	●	●	✓	✓	★	★		★	✓	✓	✓	✓	✓	✓	●
TT White	●	●	★	★	★	★		×	×	✓	✓	✓	✓	×	×
TT Multilayer	●	●	★	★	★	★		×	×	✓	✓	✓	✓	×	×
Functional Explore	●	●	✓	✓	★	★		★	✓	✓	✓	✓	✓	✓	✓
Esthetic Explore	●	●	★	★	★	★		●	×	✓	✓	✓	✓	●	×

★ optimum ✓ available ● available but not recommended × unavailable



HT White

ALL ZIRCONIA YOU NEED
HT WHITE

RELIABLE MATERIALS EXPERT

HT White

- Suitable for coping and framework
- Superior strength

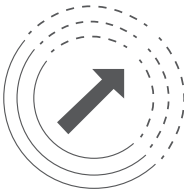


Physical Characteristics

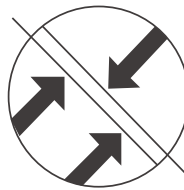
Density after sintering	6.07±0.01g/cm ³
CTE(25-500°C)	(10.5±1.0)×10 ⁻⁶ K ⁻¹
Accelerated aging surface monoclinic phase content	<10%
Chemical solubility after sintering	<100µg/cm ²
Radioactivity	<0.1Bq/g
Sintering temperature	1400-1580°C recommend 1530°C

Chemical Composition

ZrO ₂ + HfO ₂ + Y ₂ O ₃	>99%
Y ₂ O ₃	4.5%-6%
Al ₂ O ₃	<0.5%
Others oxides	<0.5%



TRANSLUCENCY
39%



STRENGTH
1200MPa



ST Series

ALL ZIRCONIA YOU NEED
ST WHITE

RELIABLE MATERIALS EXPERT

ST White

- Suitable for full contour crown and bridge
- Excellent machinability

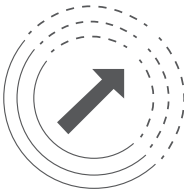


• Physical Characteristics

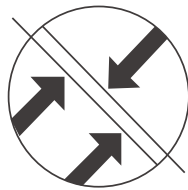
Density after sintering	6.08±0.01g/cm ³
CTE(25-500°C)	(10.5±1.0)×10 ⁻⁶ K ⁻¹
Accelerated aging surface monoclinic phase content	<15%
Chemical solubility after sintering	<100µg/cm ²
Radioactivity	<0.1Bq/g
Sintering temperature	1400-1580°C recommend 1530°C

• Chemical Composition

ZrO ₂ + HfO ₂ + Y ₂ O ₃	>99%
Y ₂ O ₃	4.5%-6%
Al ₂ O ₃	<0.5%
Others oxides	<0.5%



TRANSLUCENCY
43%



STRENGTH
1200MPa

ST Pre-shaded

- Suitable for full contour crown and bridge
- Available for VITA 16 shades

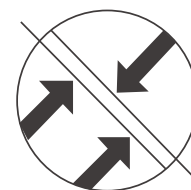
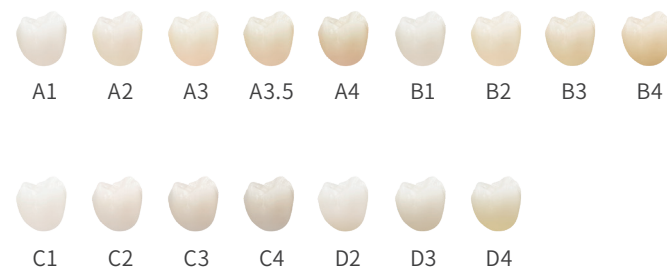


• Physical Characteristics

Density after sintering	$6.08 \pm 0.01 \text{g/cm}^3$
CTE(25-500°C)	$(10.5 \pm 1.0) \times 10^{-6} \text{K}^{-1}$
Accelerated aging surface monoclinic phase content	<15%
Chemical solubility after sintering	<100µg/cm ²
Radioactivity	<0.1Bq/g
Sintering temperature	1400-1580°C recommend 1530°C

• Chemical Composition

ZrO ₂ +HfO ₂ +Y ₂ O ₃	>97%
Y ₂ O ₃	4.4%-5.5%
Al ₂ O ₃	<0.5%
Fe ₂ O ₃	<0.3%
Er ₂ O ₃	<1.0%
Others oxides	<1.2%



STRENGTH
1100MPa

ST Multilayer

- Suitable for full contour crown and bridge
- Multilayer gradient with 7 popular shades

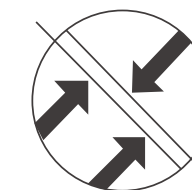
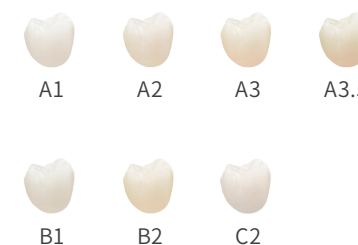


• Physical Characteristics

Density after sintering	$6.08 \pm 0.01 \text{g/cm}^3$
CTE(25-500°C)	$(10.5 \pm 1.0) \times 10^{-6} \text{K}^{-1}$
Accelerated aging surface monoclinic phase content	<15%
Chemical solubility after sintering	<100µg/cm ²
Radioactivity	<0.1Bq/g
Sintering temperature	1400-1580°C recommend 1530°C

• Chemical Composition

ZrO ₂ +HfO ₂ +Y ₂ O ₃	>97.7%
Y ₂ O ₃	4.4%-5.5%
Al ₂ O ₃	<0.5%
Fe ₂ O ₃	<0.3%
Er ₂ O ₃	<1.0%
Others oxides	<1.2%



STRENGTH
1100MPa

TT ONE Series

ALL ZIRCONIA YOU NEED
TT-ONE

RELIABLE MATERIALS EXPERT

TT-ONE

- Suitable for all indications
- Natural esthetics

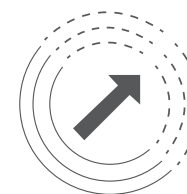


• Physical Characteristics

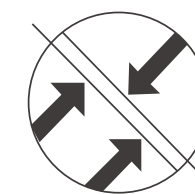
Density after sintering	$\geq 6.0 \text{ g/cm}^3$
CTE(25-500°C)	$(10.5 \pm 1.0) \times 10^{-6} \text{ K}^{-1}$
Accelerated aging surface monoclinic phase content	<5%
Chemical solubility after sintering	<100 $\mu\text{g/cm}^2$
Radioactivity	<0.1 Bq/g
Sintering temperature	1430-1550°C recommend 1480°C

• Chemical Composition

$\text{ZrO}_2 + \text{HfO}_2 + \text{Y}_2\text{O}_3$	>96.5%
Y_2O_3	5.8%-9.7%
Al_2O_3	<0.5%
Fe_2O_3	<0.5%
Er_2O_3	<2.0%
Others oxides	<0.5%



TRANSLUCENCY
47%



STRENGTH
1000MPa

TT-ONE Pre-shaded

- Suitable for all indications
- Available for 7 popular shades+ 2 bleach shades



• Physical Characteristics

Density after sintering	$\geq 6.0 \text{ g/cm}^3$
CTE(25-500°C)	$(10.5 \pm 1.0) \times 10^{-6} \text{ K}^{-1}$
Accelerated aging surface monoclinic phase content	<5%
Chemical solubility after sintering	<100 $\mu\text{g/cm}^2$
Radioactivity	<0.1Bq/g
Sintering temperature	1430-1550°C recommend 1480°C

• Chemical Composition

$\text{ZrO}_2 + \text{HfO}_2 + \text{Y}_2\text{O}_3$	>96.5%
Y_2O_3	5.8%-9.7%
Al_2O_3	<0.5%
Fe_2O_3	<0.5%
Er_2O_3	<2.0%
Others oxides	<0.5%



TT-ONE Multilayer

- Suitable for all indications
- Available for 7 popular shades

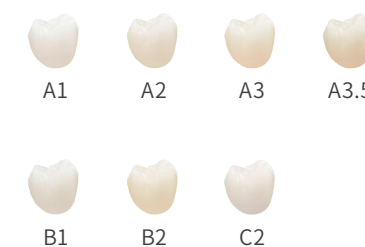


• Physical Characteristics

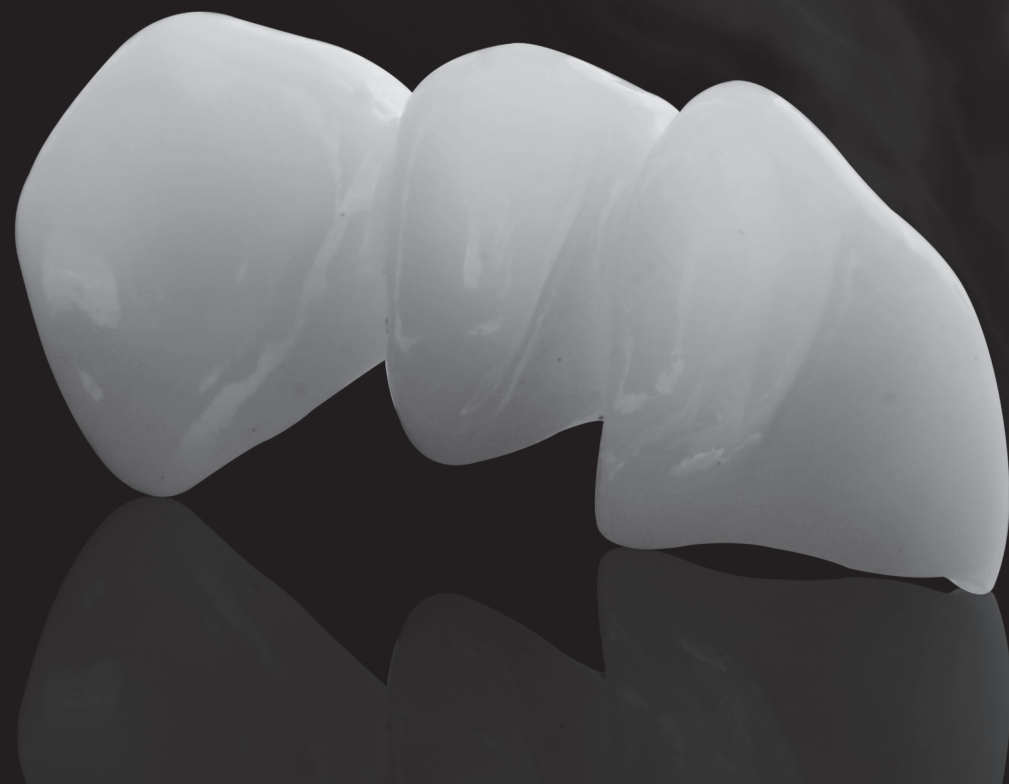
Density after sintering	$\geq 6.0 \text{ g/cm}^3$
CTE(25-500°C)	$(10.5 \pm 1.0) \times 10^{-6} \text{ K}^{-1}$
Accelerated aging surface monoclinic phase content	<5%
Chemical solubility after sintering	<100 $\mu\text{g/cm}^2$
Radioactivity	<0.1Bq/g
Sintering temperature	1430-1550°C recommend 1480°C

• Chemical Composition

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Y_2O_3	5.8%-9.7%
Al_2O_3	<0.5%
Fe_2O_3	<0.5%
Er_2O_3	<2.0%
Others oxides	<0.5%



TT Series



ALL ZIRCONIA YOU NEED
TT WHITE

RELIABLE MATERIALS EXPERT

TT White

- Suitable for anterior restoration
- Superior translucency

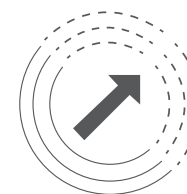


• Physical Characteristics

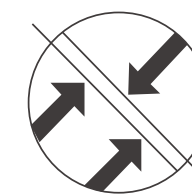
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CTE(25-500°C)	$(10.5 \pm 1.0) \times 10^{-6} \text{ K}^{-1}$
Accelerated aging surface monoclinic phase content	<5%
Chemical solubility after sintering	<100 $\mu\text{g/cm}^2$
Radioactivity	<0.1Bq/g
Sintering temperature	1430-1550°C recommend 1450°C

• Chemical Composition

$\text{ZrO}_2 + \text{HfO}_2 + \text{Y}_2\text{O}_3$	>96.5%
Y_2O_3	5.8%-9.7%
Al_2O_3	<0.5%
Fe_2O_3	<0.5%
Er_2O_3	<2.0%
Others oxides	<0.5%



TRANSLUCENCY
49%



STRENGTH
600MPa

TT Multilayer

- Suitable for anterior restoration
- Multilayer gradient with 7 popular shades

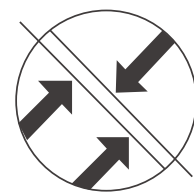


Physical Characteristics

Density after sintering	$\geq 6.0 \text{ g/cm}^3$
CTE(25-500°C)	$(10.5 \pm 1.0) \times 10^{-6} \text{ K}^{-1}$
Accelerated aging surface monoclinic phase content	<5%
Chemical solubility after sintering	<100 $\mu\text{g/cm}^2$
Radioactivity	<0.1Bq/g
Sintering temperature	1430-1550°C recommend 1450°C

Chemical Composition

$\text{ZrO}_2 + \text{HfO}_2 + \text{Y}_2\text{O}_3$	>96.5%
Y_2O_3	5.8%-9.7%
Al_2O_3	<0.5%
Fe_2O_3	<0.5%
Er_2O_3	<2.0%
Others oxides	<0.5%



**STRENGTH
600MPa**

Explore Series

New Generation Multilayer

FUNCTIONAL EXPLORE

- Suitable for all indications
- Available for 7 popular shades

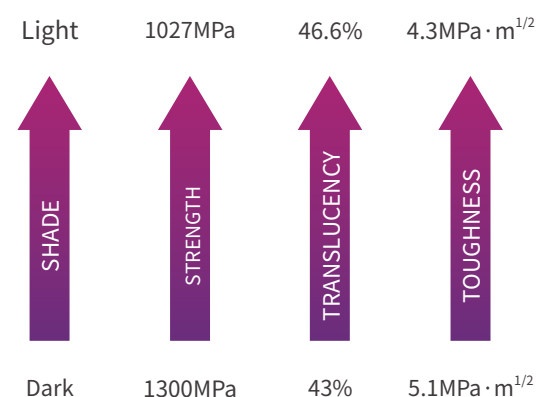


Physical Characteristics

Density after sintering	$\geq 6.0 \text{ g/cm}^3$
CTE(25-500°C)	$(10.5 \pm 1.0) \times 10^{-6} \text{ K}^{-1}$
Accelerated aging surface monoclinic phase content	<5%
Chemical solubility after sintering	<100 $\mu\text{g/cm}^2$
Radioactivity	<0.1 Bq/g
Sintering temperature	1430-1550°C recommend 1480°C

Chemical Composition

$\text{ZrO}_2 + \text{HfO}_2 + \text{Y}_2\text{O}_3$	>96.5%
Y_2O_3	5.8%-9.7%
Al_2O_3	<0.5%
Fe_2O_3	<0.5%
Er_2O_3	<2.0%
Others oxides	<0.5%



ESTHETIC EXPLORE

- Suitable for all indications
- Available for 7 popular shades + 2 bleach shades

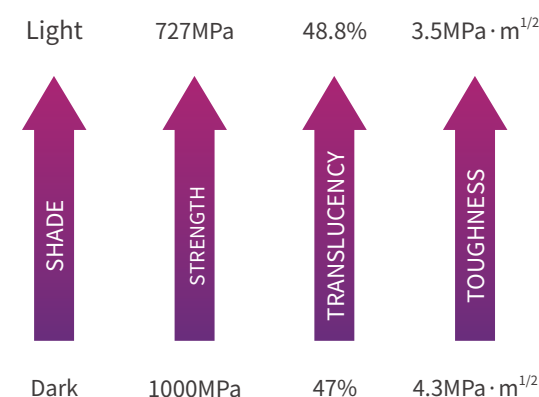


Physical Characteristics

Density after sintering	$\geq 6.0 \text{ g/cm}^3$
CTE(25-500°C)	$(10.5 \pm 1.0) \times 10^{-6} \text{ K}^{-1}$
Accelerated aging surface monoclinic phase content	<5%
Chemical solubility after sintering	<100 $\mu\text{g/cm}^2$
Radioactivity	<0.1 Bq/g
Sintering temperature	1430-1550°C recommend 1480°C

Chemical Composition

$\text{ZrO}_2 + \text{HfO}_2 + \text{Y}_2\text{O}_3$	>96.5%
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Al_2O_3	<0.5%
Fe_2O_3	<0.5%
Er_2O_3	<2.0%
Others oxides	<0.5%





Jiang Shan

Famous Dental Aesthetic Restoration Expert in China

