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UPCERA

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ZIRCONIA



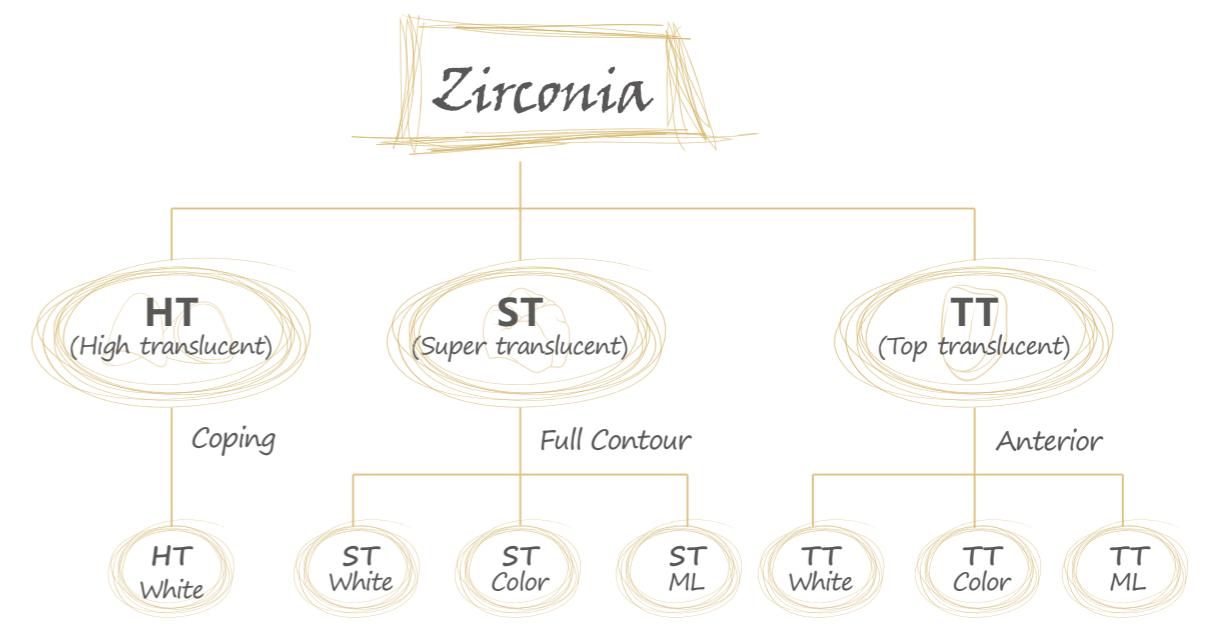
*China's No.1 manufacturer
of dental restorative materials*



Be proud of UPCERA

-  UPCERA was established (2003)
-  World's biggest supplier of zirconia sleeves for optical fiber connector
-  China's 1st manufacturer certificated by CE, ISO13485, FDA and CFDA
-  China's 1st manufacturer of dental CAD/CAM milling machine (2010)
-  World's 1st manufacturer of 16 shades zirconia (2013)
-  World's 1st manufacturer of multi-layered hybrid ceramics (2016)

PRODUCT FAMILY



HT Blank

Features:

- Suitable for coping and framework
- Superior strength



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%

Physical characteristics

Density after sintering (g/cm ³)	6.07±0.01
CTE (25-500°C)	(10.5±1.0)×10 ⁻⁶ K ⁻¹
3-point flexural strength after sintering (Mpa)	> 1200 (Av.)
Accelerated aging surface monoclinic phase content	< 10%
Average transmittance	39%
Chemical solubility after sintering (ug/cm ²)	< 100
Cytotoxicity test	Level 0
Radioactivity (Bq/g)	< 0.1
Sintering temperature	1400~1580°C recommend1530°C

Indications

Coping	✓
2-4 unit Bridges	✓
Bridges over 5 units (Less than 3 sequential pontics for the anterior, Less than 2 sequential pontics for the posterior)	✓*
Cantilever bridge (Except the patient with bruxism)	✓
Inlay bridge (Except the patient with bruxism)	✓
Maryland bridge (Except the patient with bruxism)	✓
Telescopic crown	✓

- ✓ recommended to make bridge
- ✓* can be made bridge but not recommended



ST Blank

Features:

- Suitable for full contour crown and bridge



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%

Physical characteristics

Density after sintering (g/cm ³)	6.08±0.01
CTE(25-500°C)	(10.5±1.0)×10 ⁻⁶ K ⁻¹
3-point flexural strength after sintering (Mpa)	> 1200 (Av.)
Accelerated aging surface monoclinic phase content	< 15%
Average transmittance	43%
Chemical solubility after sintering (ug/cm ²)	< 100
Cytotoxicity test	Level 0
Radioactivity (Bq/g)	< 0.1
Sintering temperature	1400~1580°C recommend1530°C

Indications

Crown	✓
2-4 unit Bridges	✓
Bridges over 5 units (Less than 3 sequential pontics for the anterior, Less than 2 sequential pontics for the posterior)	✓*
Cantilever bridge (Except the patient with bruxism)	✓
Inlay bridge (Except the patient with bruxism)	✓
Maryland bridge (Except the patient with bruxism)	✓
Telescopic crown	✓

- ✓ recommended to make bridge
- ✓* can be made bridge but not recommended



ST-Color Blank

Features:

- Suitable for full contour crown and bridge



16 shades



Chemical Composition

Nanometer zirconia powder	>98%
Fe ₂ O ₃	<0.3%
Pr ₂ O ₃	<0.2%
Er ₂ O ₃	<1.0%
Others oxides	<0.5%

Physical characteristics

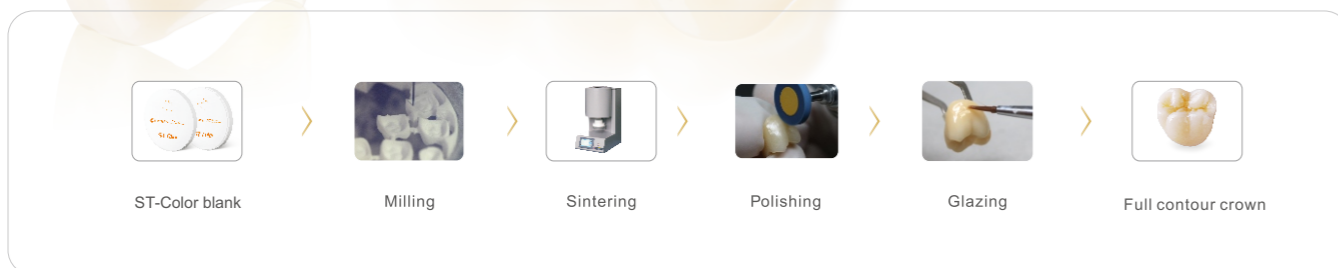
Density after sintering (g/cm ³)	6.08±0.01
CTE (25-500°C)	(10.5±1.0)×10 ⁻⁶ K ⁻¹
3-point flexural strength after sintering (Mpa)	> 1100 (Av.)
Accelerated aging surface monoclinic phase content	< 15%
Chemical solubility after sintering (ug/cm ²)	< 100
Cytotoxicity test	Level 0
Radioactivity (Bq/g)	< 0.1
Sintering temperature	1450~1580°C recommend1530°C

Indications

Crown	✓
2-4 unit Bridges	✓
Bridges over 5 units (Less than 3 sequential pontics for the anterior, less than 2 sequential pontics for the posterior)	✓*
Cantilever bridge (Except the patient with bruxism)	✓
Inlay bridge (Except the patient with bruxism)	✓
Maryland bridge (Except the patient with bruxism)	✓
Telescopic crown	✓

- ✓ recommended to make bridge
- ✓* can be made bridge but not recommended

Procedures



ST-Multilayer Blank

Features:

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



7 shades



Chemical Composition

Nanometer zirconia powder	>98%
Fe ₂ O ₃	<0.3%
Pr ₂ O ₃	<0.2%
Er ₂ O ₃	<1.0%
Others oxides	<0.5%

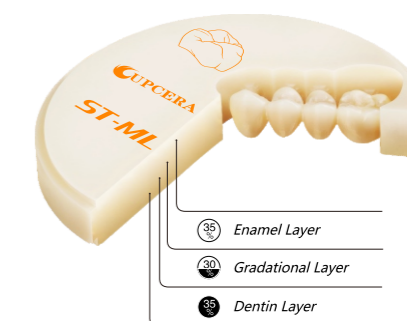
Physical characteristics

Density after sintering (g/cm ³)	6.08±0.01
CTE after sintering (25-200°C)	(10.5±1.0)×10 ⁻⁶ K ⁻¹
3-point flexural strength after sintering (Mpa)	> 1100 (Av.)
Accelerated aging surface monoclinic phase content	< 15%
Chemical solubility after sintering (ug/cm ²)	< 100
Cytotoxicity test	Level 0
Radioactivity after sintering (Bq/g)	< 0.1
Sintering temperature	1450~1580°C recommend1530°C

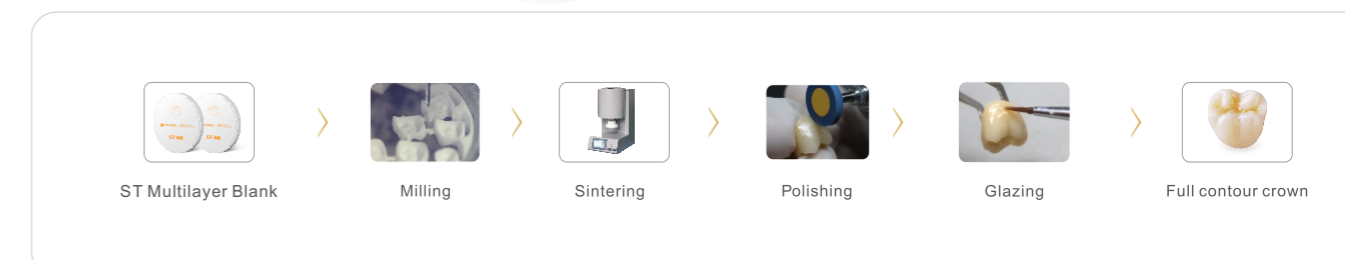
Indications

Crown	✓
2-4 unit Bridges	✓
Cantilever bridge (Except the patient with bruxism)	✓
Inlay bridge (Except the patient with bruxism)	✓
Maryland bridge (Except the patient with bruxism)	✓
Telescopic crown	✓

- ✓ recommended to make bridge



Procedures



TT Blank

Features:

- Suitable for anterior restoration
- Superior glassy translucency



Chemical Composition

ZrO ₂ + HfO ₂	86.3% ~ 94.2%
Y ₂ O ₃	5.8%-9.7%
Er ₂ O ₃	<2%
Fe ₂ O ₃	<0.5%
Al ₂ O ₃	<0.5%
Others oxides	<0.5%

Indications

Crown	✓
2-3 unit Bridges	✓
Telescopic crown	✓
Veneer	✓

✓ recommended to make bridge



Physical characteristics

Density after sintering (g/cm ³)	≥6.0
CTE after sintering (25-200°C)	(10.5±1.0)×10 ⁻⁶ K ⁻¹
3-point flexural strength after sintering (Mpa)	> 600 (Av.)
Accelerated aging surface monoclinic phase content	< 5%
Average transmittance	49%
Chemical solubility after sintering (ug/cm ²)	< 100
Cytotoxicity test	Level 0
Radioactivity after sintering (Bq/g)	<0.1
Sintering temperature	1430~1470°C recommend1450°C



TT-Color Blank

Features:

- Suitable for anterior restoration
- Available for bleach shade



Chemical Composition

ZrO ₂ + HfO ₂	86.3% ~ 94.2%
Y ₂ O ₃	5.8%-9.7%
Er ₂ O ₃	<2%
Fe ₂ O ₃	<0.5%
Al ₂ O ₃	<0.5%
Others oxides	<0.5%

Indications

Crown	✓
2-3 unit Bridges	✓
Telescopic crown	✓
Veneer	✓

✓ recommended to make bridge



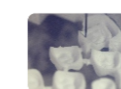
Physical characteristics

Density before sintering (g/cm ³)	≥ 6.0
CTE after sintering (25-200°C)	(10.5±1.0)×10 ⁻⁶ K ⁻¹
3-point flexural strength after sintering (Mpa)	> 600 (Av.)
Accelerated aging surface monoclinic phase content	< 5%
Chemical solubility after sintering (ug/cm ²)	< 100
Cytotoxicity test	Level 0
Radioactivity after sintering (Bq/g)	<0.1
Sintering temperature	1430~1470°C recommend1450°C

Procedures



TT-Color Blank



Milling



Sintering



Polishing



Glazing



Full contour crown

TT-Multilayer Blank

Features:

- Suitable for anterior restoration
- Multi-layer gradient with 7 popular shades



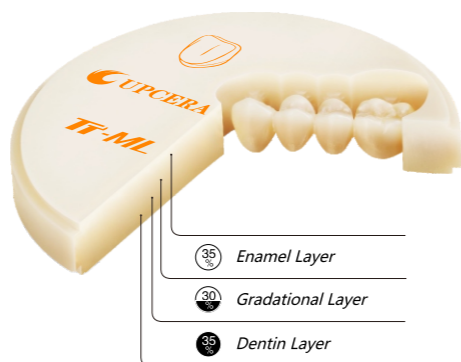
Chemical Composition

ZrO ₂ + HfO ₂	86.3% ~ 94.2%
Y ₂ O ₃	5.8%-9.7%
Er ₂ O ₃	<2%
Fe ₂ O ₃	<0.5%
Al ₂ O ₃	<0.5%
Others oxides	<0.5%

Indications

Crown	✓
2-3 unit Bridges	✓
Telescopic crown	✓
Veneer	✓

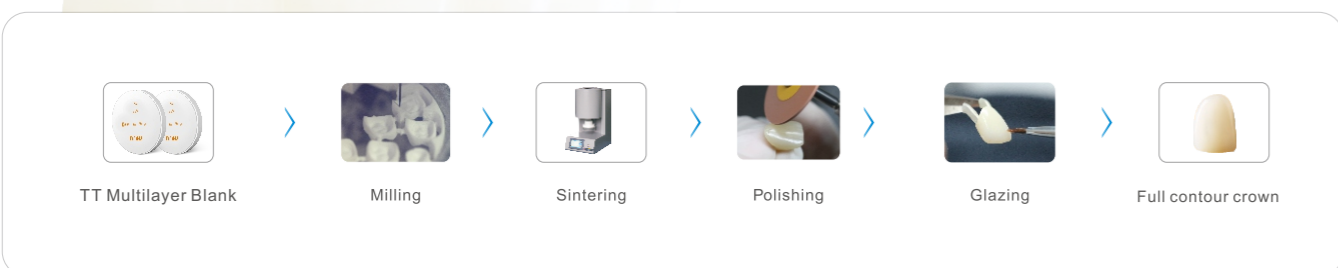
✓ recommended to make bridge



Physical characteristics

Density before sintering (g/cm ³)	≥ 6.0
CTE after sintering (25-200°C)	(10.5±1.0)×10 ⁻⁶ K ⁻¹
3-point flexural strength after sintering (Mpa)	> 600 (Av.)
Accelerated aging surface monoclinic phase content	< 5%
Chemical solubility after sintering (ug/cm ²)	< 100
Cytotoxicity test	Level 0
Radioactivity after sintering (Bq/g)	<0.1
Sintering temperature	1430~1470°C recommend1450°C

Procedures



Stains & Glazing

Features:

- Easy to handle and obtain natural looking restorations
- Low firing temperatures to protect the zirconia



Available for two stains kits

UPCERA Base stains kit	Base A / Base B / Base C / yellow / olive yellow / pink / brown / reddish brown / grey / blue / purple / black / white / olive green / glaze / universal glaze liquid.
UPCERA 16 shades stains kit	A3.5 / A4 / B2 / B4 / C1 / C3 / C4 / D2 / D3 / D4 / glaze / universal glaze liquid.





After glazing
by upcera stains kit



UPCERA zirconia shade guide



Specification

Applied for	Specification(mm)	Package	HT white	ST white	ST color	ST Multi-layer	TT white	TT color	TT Multi-layer
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	✓	✓	✓		✓	✓	
Cerac 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	1pcs/box	✓	✓	✓		✓		
	89x71x12	1pcs/box	✓	✓	✓		✓		
	89x71x14	1pcs/box	✓	✓	✓		✓		
	89x71x16	1pcs/box	✓	✓	✓		✓		
	89x71x18	1pcs/box	✓	✓	✓		✓		
	89x71x20	1pcs/box	✓	✓	✓		✓		
	89x71x22	1pcs/box	✓	✓	✓		✓		
	89x71x25	1pcs/box	✓	✓	✓		✓		