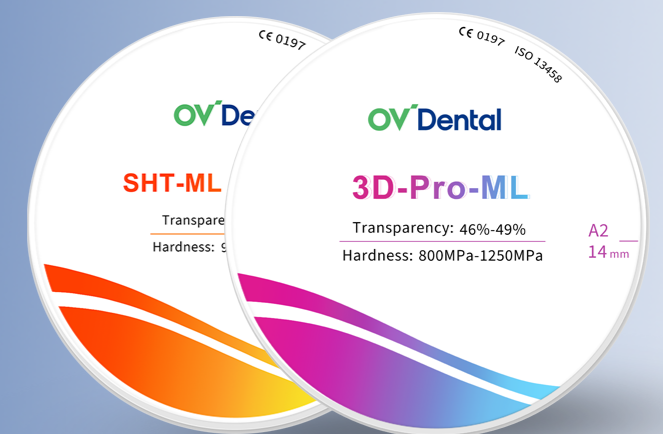


THE INNOVATOR OF INTEGRATED
DIGITAL DENTAL SOLUTIONS

OV Dental

ZIRCONIA
DENTAL SOLUTION



OV Dental

Shenzhen OV Dental Technology Co.,Ltd

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Shenzhen OV Dental Technology Co.,Ltd

ABOUT US

OV Dental,as an innovator in integrated digital dental solutions, OV Dental originated from the technology of Tsinghua DME(the Department of Mechanical Engineering of Tsinghua University) and SIAT (the Precision Engineering Center of Shenzhen Institute of Advanced Technology of Chinese Academy of Sciences), focusing on the research, development, production, and application of digital dental processing equipment, digital accessories, and dental materials.

With over 15 years of experience in the development and manufacturing of high-end machine tools across multiple industries,OV Dental deeply integrates advanced manufacturing technologies from aerospace, auto-motive, electronics, and healthcare into the field of dentistry.By doing so, the company drives the automation and intelligent transformation of the dental manufacturing industry, delivering comprehensive digital solutions to dental institutions worldwide.



3D-Pro-ML Multi-Layered Colored Zirconia

- Light Translucency: 46%–49%
- Hardness: 800MPa–1250MPa
- Systems: 98mm, 95mm, 92×75mm
- Thickness: 10, 12, 14, 16, 18, 20, 22, 25mm
- No Frost Staining
- Instantly restores the translucent beauty of natural teeth
- Recreates lifelike, natural teeth



Physical Properties

Parameters

Density	3.15±0.05 g·cm ⁻³
Post-Sintering Density	6.07±0.02 g·cm ⁻³
Thermal Expansion Coefficient	(10.5±0.5) ×10 ⁻⁶ K ⁻¹
Fracture Toughness	5.0–6.5 MPa·m ^½
Hardness	1250–1350 HV10
Chemical Solubility After Sintering	<100 μg·cm ⁻²
Cytotoxicity	0 Level
Radioactivity	<0.1 Bq·g ⁻¹
Sintering Temperature	1480–1510°C (Recommended: 1500°C)

Chemical Composition

ZrO ₂ + HfO ₂ + Y ₂ O ₃	≥99%
Y ₂ O ₃	4.5%–8.0%
Al ₂ O ₃	<0.15%
Other Oxides	<0.5%

Applications Range

Recommended Use	All Zirconium
Compatible Staining Liquids	/
Powder	100% Sinocera Nano Zirconia Oxide

SHT-ML Multilayer

Ultra-High Translucency Multilayer Colored Zirconia

Light Translucency: 45-47%

Hardness: 900MPa-1150MPa

Systems: 98mm, 95mm, 92×75mm

Thickness: 10, 12, 14, 16, 18, 20, 22, 25mm

Pre-Shaded Colors: VITA 16 shades
+ Ivoclar bleach 4 shades

No staining required
achieving perfect results in one step.
Natural translucency and
beauty effortlessly revealed.



Physical Properties	Parameters
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Density	3.15±0.05 g·cm ⁻³
Post-Sintering Density	6.09±0.01 g·cm ⁻³
Thermal Expansion Coefficient	(10.5±0.5) ×10 ⁻⁶ K ⁻¹
Fracture Toughness	5.3-6.3 MPa·m ^½
Hardness	1270-1330 HV10
Chemical Solubility After Sintering	<100 µg·cm ⁻²
Cytotoxicity	0 Level
Radioactivity	<0.1 Bq·g ⁻¹
Sintering Temperature	1500–1530°C (Recommended: 1500°C)

Chemical Composition

ZrO ₂ + HfO ₂ + Y ₂ O ₃	≥99%
Y ₂ O ₃	6.5%–8.0%
Al ₂ O ₃	<0.15%
Other Oxides	<0.5%

Applications Range

Recommended Use	Full Zirconium
Compatible Staining Liquids	/
Powder	100% Sinocera Nano Zirconia Oxide

UT-ML Multilayer

Premium Multi-Layered Colored Zirconia

Light Translucency: 49-53%

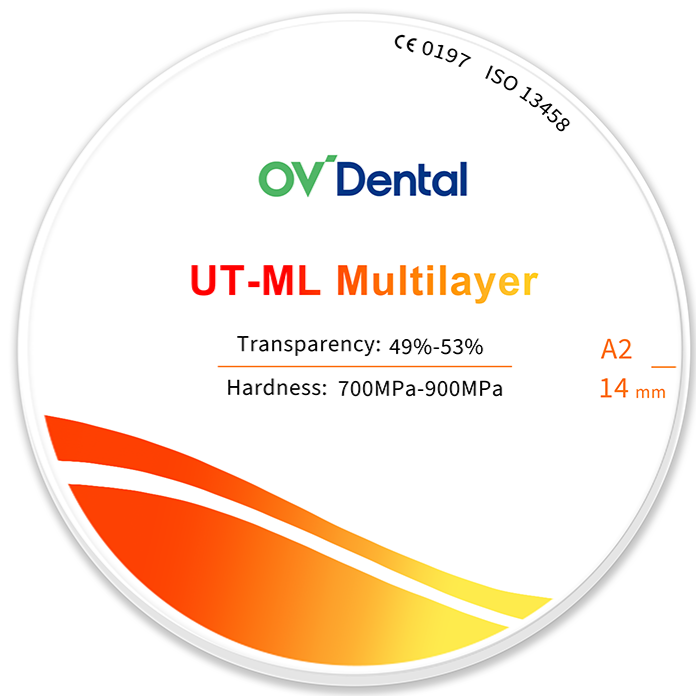
Hardness: 700MPa-900MPa

Systems: 98mm, 95mm, 92×75mm

Thickness: 10, 12, 14, 16, 18, 20, 22, 25mm

Pre-Shaded Colors: VITA 16 shades
+ Ivoclar bleach 4 shades

No staining required
Achieves enamel-like translucency



Physical Properties	Parameters
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Density	3.15±0.05 g·cm ⁻³
Post-Sintering Density	6.06±0.02 g·cm ⁻³
Thermal Expansion Coefficient	(10.5±0.5) ×10 ⁻⁶ K ⁻¹
Fracture Toughness	3.5-5.0 MPa·m ^½
Hardness	1150-1250 HV10
Chemical Solubility After Sintering	<100 µg·cm ⁻²
Cytotoxicity	0 Level
Radioactivity	<0.1 Bq·g ⁻¹
Sintering Temperature	1480–1510°C (Recommended: 1500°C)

Chemical Composition

ZrO ₂ + HfO ₂ + Y ₂ O ₃	≥99%
Y ₂ O ₃	8.0%–10.0%
Al ₂ O ₃	<0.15%
Other Oxides	<0.5%

Applications Range

Recommended Use	Full Zirconium
Compatible Staining Liquids	/
Powder	100% Sinocera Nano Zirconia Oxide

SHT-C Preshade

Ultra-high transparency single color zirconium

- Light Translucency: 46%
- Hardness: >1100MPa
- Systems: 98mm, 95mm, 92×75mm
- Thickness: 10, 12, 14, 16, 18, 20, 22, 25mm
- Pre-Shaded Colors: VITA5 colors
+ Ivoclar white 4 colors

Ultra-high transparency, precise glazing



ST White

Ultra-transparent single color zirconium

- Light Translucency: 43%
- Hardness: >1200MPa
- Systems: 98mm, 95mm, 92×75mm
- Thickness: 10, 12, 14, 16, 18, 20, 22, 25mm
- High strength and toughness,
the best cost-performance choice



Physical Properties

Physical Properties	Parameters
Density	3.15±0.05 g·cm ⁻³
Post-Sintering Density	6.08±0.01 g·cm ⁻³
Thermal Expansion Coefficient	(10.5±0.5) ×10 ⁻⁶ K ⁻¹
Fracture Toughness	5.7 MPa·m ^½
Hardness	1300 HV10
Chemical Solubility After Sintering	<100 μg·cm ⁻²
Cytotoxicity	0 Level
Radioactivity	<0.1 Bq·g ⁻¹
Sintering Temperature	1500–1530°C (Recommended: 1500°C)

Chemical Composition

ZrO ₂ + HfO ₂ + Y ₂ O ₃	≥99%
Y ₂ O ₃	7.0%–7.8%
Al ₂ O ₃	<0.15%
Other Oxides	<0.5%

Applications Range

Recommended Use	All Zirconium
Compatible Staining Liquids	/
Powder	100% Sinocera Nano Zirconia Oxide

Physical Properties

Physical Properties	Parameters
Density	3.15±0.05 g·cm ⁻³
Post-Sintering Density	6.09±0.01 g·cm ⁻³
Thermal Expansion Coefficient	(10.5±0.5) ×10 ⁻⁶ K ⁻¹
Fracture Toughness	6.5 MPa·m ^½
Hardness	1350 HV10
Chemical Solubility After Sintering	<100 μg·cm ⁻²
Cytotoxicity	0 Level
Radioactivity	<0.1 Bq·g ⁻¹
Sintering Temperature	1500–1530°C (Recommended: 1500°C)

Chemical Composition

ZrO ₂ + HfO ₂ + Y ₂ O ₃	≥99%
Y ₂ O ₃	4.5%–6.0%
Al ₂ O ₃	<0.15%
Other Oxides	<0.15%

Applications Range

Recommended Use	All Zirconium
Compatible Staining Liquids	16/26 color dyeing solution, cutting solution, diluent
Powder	100% Sinocera Nano Zirconia Oxide