

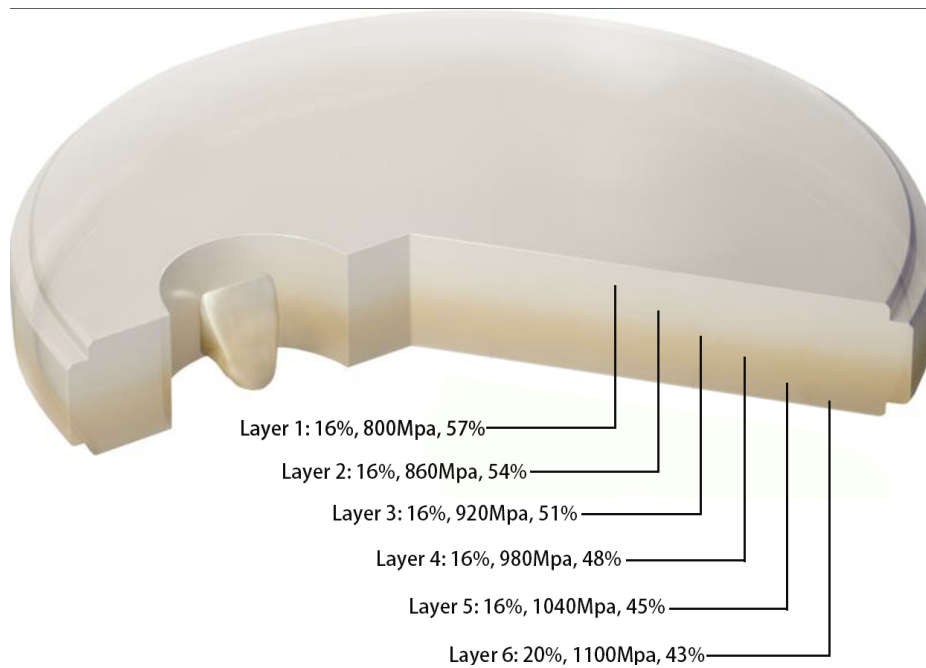
IVISTA 3D Pro Technical Information Sheet



Authentic elegance and excellent strength

[Strength and Translucency »

IVISTA 3D Pro is a state-of-the-art multilayer zirconia material featuring a meticulously engineered six-layer gradient structure. Each layer seamlessly transitions in translucency and strength, ensuring a natural aesthetic and optimal mechanical performance across the restoration. Leveraging advanced interlayer transition blending technology, IVISTA 3D Pro achieves an exceptionally smooth gradient, delivering a lifelike, seamless appearance that closely mimics natural dentition. The harmonized balance of strength and translucency makes it an ideal choice for a wide range of clinical indications, from single crowns to full-arch restorations of up to 14 units.



Properties »

Physical properties

Sintered Density	$\geq 6.0\text{g/cm}^3$
Coefficient of thermal expansion $\text{K}^{-1}(25\sim 500^{\circ}\text{C})$	$(10.5\pm 1.0) \times 10^{-6}$
Surface monoclinic phase content after accelerated aging	$< 5\%$
Chemical solubility	$\leq 100\mu\text{g/cm}^2$

Chemical properties

ZrO_2	90%~95%
Y_2O_3	4%~10%
Al_2O_3	$\leq 0.5\%$
Other oxides	$< 0.5\%$

Sintering Cycles »

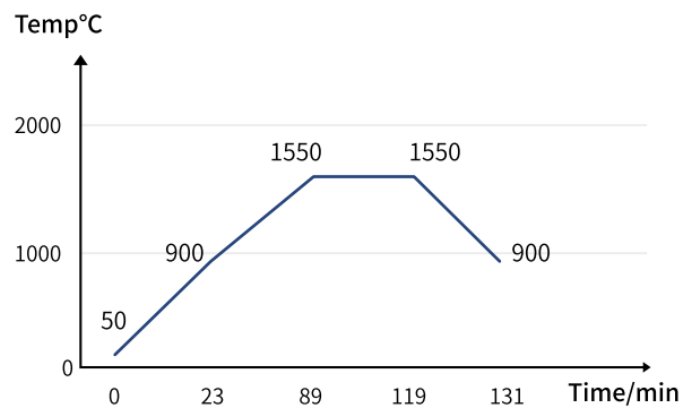
The 3D Pro Zirconia range offers advanced high-performance sintering capabilities, enabling rapid sintering cycles as short as two hours while maintaining exceptional quality. For larger spans, conventional sintering cycles can still be utilized to ensure precision and reliability. This innovation significantly reduces

production time, operational costs, and ensures faster delivery, meeting the demands of modern dental restoration workflows.

2 hours fast sintering cycle

Single unit& Bridge up to 3 units

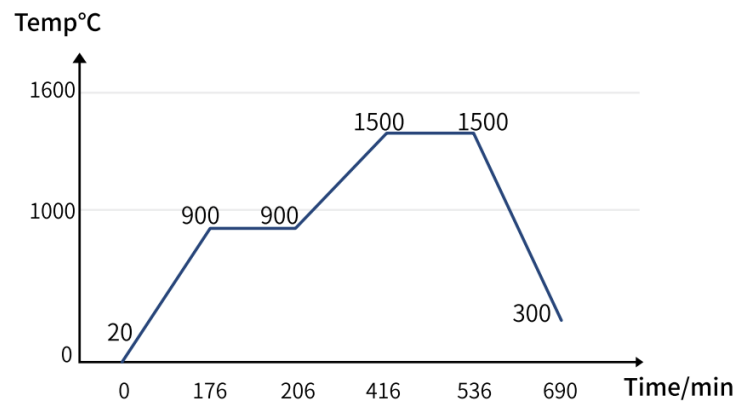
Start temp	Phase 1 heating rate	Phase 1 Maximum temp	Phase 2 heating rate	Phase 2 Maximum temp	Holding time	Cooling rate	Cooling to
20°C	52°C/min	1200°C	6°C/min	1550°C	30min	55°C/min	900°C



Conventional sintering cycles

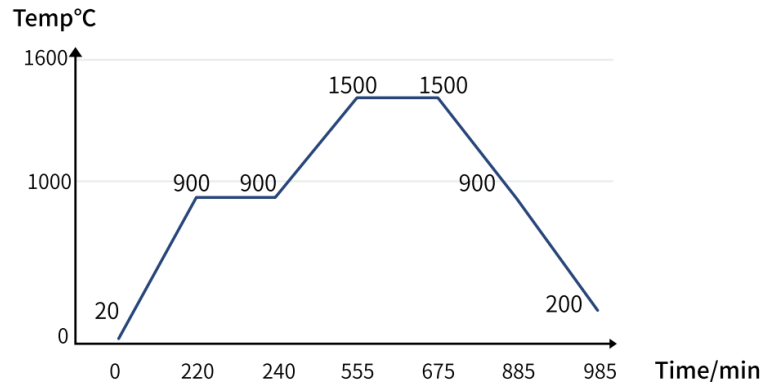
4-6 units

Start temp	Phase 1 heating rate	Phase 1 Maximum temp	Holding time	Phase 2 heating rate	Phase 2 Maximum temp	Holding time	Cooling rate	Cooling to
20°C	5°C/min	900°C	30min	3°C/min	1500°C	120min	8°C/min	300°C

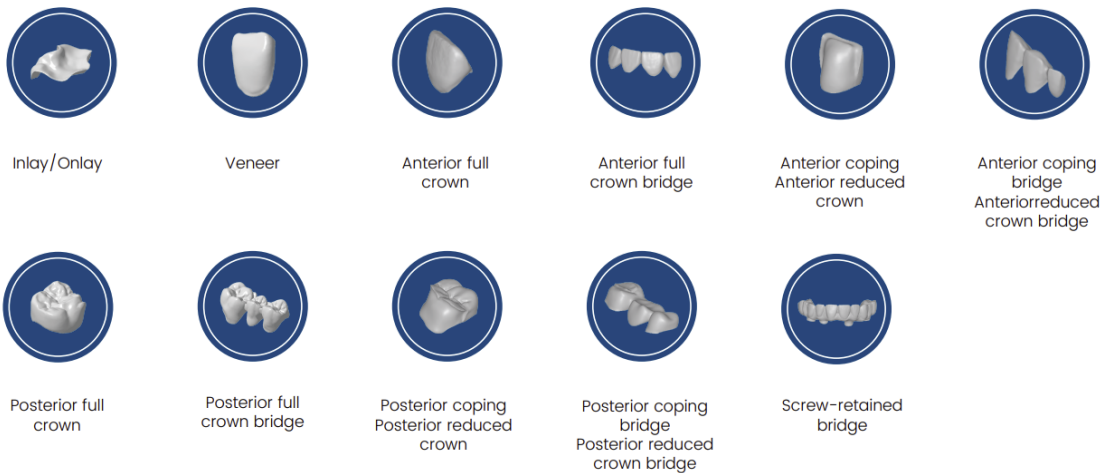


7 units and above

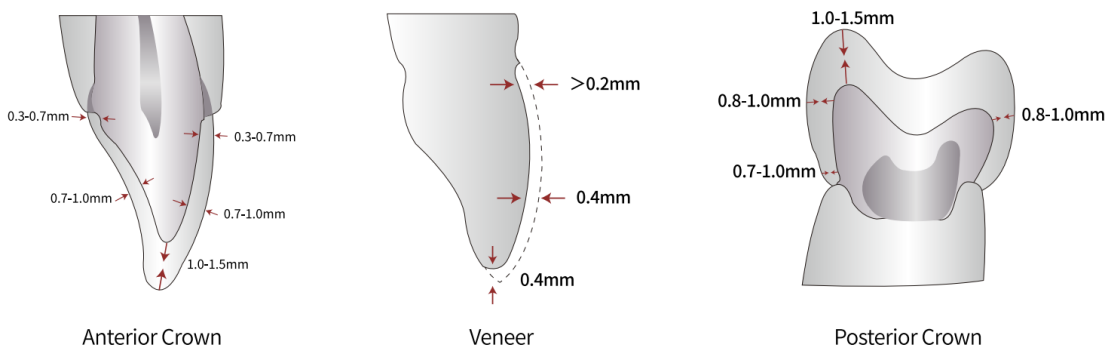
Start temp	Phase 1 heating rate	Phase 1 Maximum temp	Holding time	Phase 2 heating rate	Phase 2 Maximum temp	Holding time	Cooling rate	Cooling to	Cooling rate	Cooling to
20°C	5°C/min	900°C	20min	2°C/min	1500°C	120min	3°C/min	900°C	7°C/min	200°C

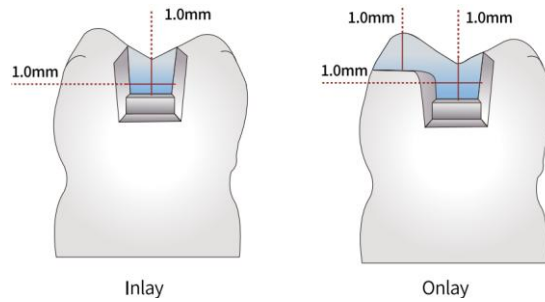


Indications for use >>>



Ideal design and preparation guidance >>>





Recommended ideal design parameters

Type of restoration		Crown	Bridge
Anterior	Axial wall thickness	≥ 0.7 mm	≥ 0.8 mm
	Occlusal thickness	≥ 1.0 mm	≥ 1.0 mm
	Bridge connectors up to 3 units 4 units and above	- -	$\geq 9\text{mm}^2$ $\geq 9\text{mm}^2$
Posterior	Axial wall thickness	≥ 0.8 mm	≥ 1.0 mm
	Occlusal thickness	≥ 1.0 mm	≥ 1.0 mm
	Bridge connectors up to 3 units 4 units and above	- -	$\geq 12\text{mm}^2$ $\geq 20\text{mm}^2$



Supplier

Email: dentsma@163.com

Website: dentsma.com/product-category/cad-cam-block