



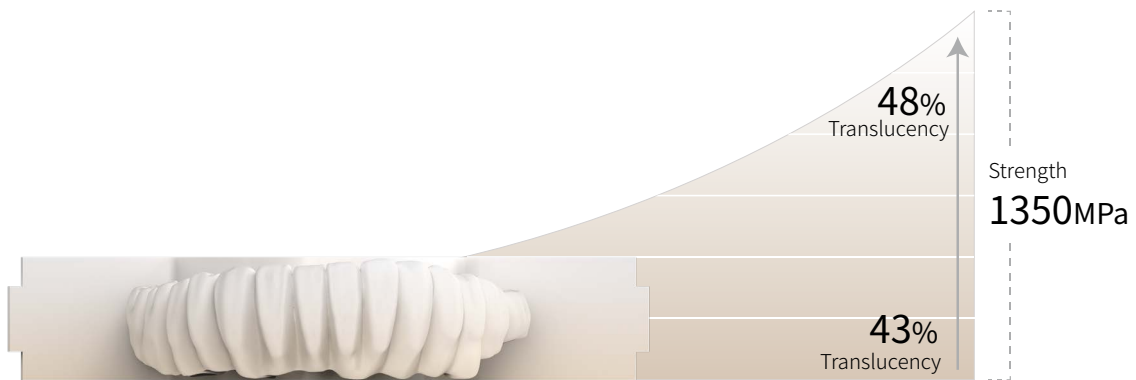
SuperfectZir SHTM High strength gradient zirconia

■ Everyone with a healthy and beautiful smile

SuperfectZir SHTM

[Strength and Translucency >>>

SHTM is a cost-effective zirconia denture material and an important part of the digital denture process. Aidite offers a full process solution from intraoral scanning to restoration fabrication, serving customers with faster shipping times, higher quality restorations and comprehensive technical support.



[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	$\leq 2000\mu\text{g/cm}^2$

Chemical properties

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

[Sintering Cycles »

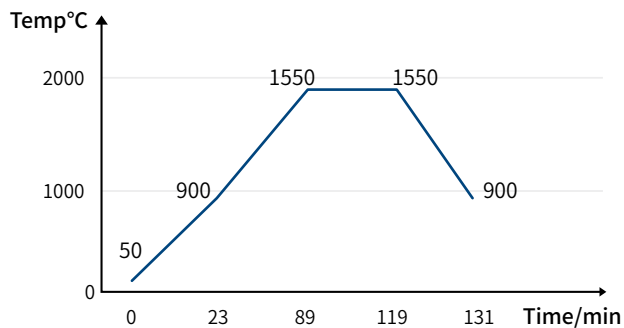
The SHTM series allows for high quality fast sintering with a 2 hour sintering curve and is compatible with bridges up to three units for larger spans. Enables shorter production times, lower costs and faster delivery times.



1-3 Unit Fast Burning Curve (2h)



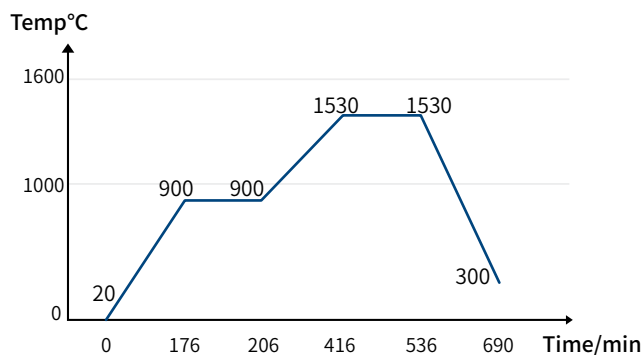
Start temp	Phase 1 heating rate	Phase 1 Maximum temp	Phase 2 heating rate	Phase 2 Maximum temp	Holding time	Cooling rate	Cooling to
20°C	52°C/min	1200°C	6°C/min	1550°C	30min	55°C/min	900°C



6 units of slow burning curves (10h)



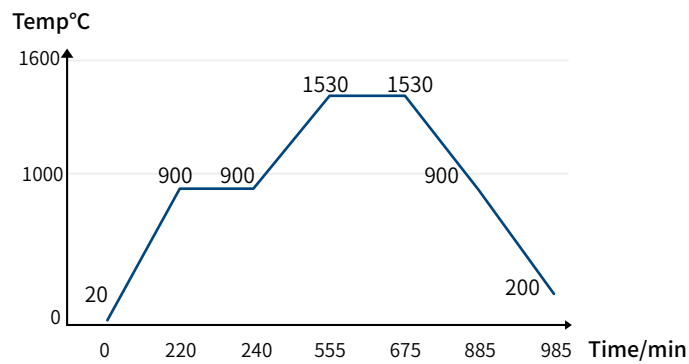
Start temp	Phase 1 heating rate	Phase 1 Maximum temp	Holding time	Phase 2 heating rate	Phase 2 Maximum temp	Holding time	Cooling rate	Cooling to
20°C	5°C/min	900°C	30min	3°C/min	1530°C	120min	8°C/min	300°C



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	1530°C	120min	3°C/min	900°C	7°C/min	200°C



Indications for use >>>

Recommend



Full crown bridge



Posterior crown



Bridge



Implant



Full arch crown bridge



Full contour screw retained bridge

Not recommended



Veneer

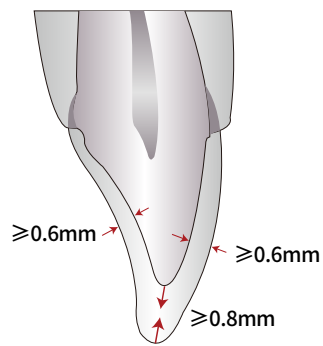


Anterior crown

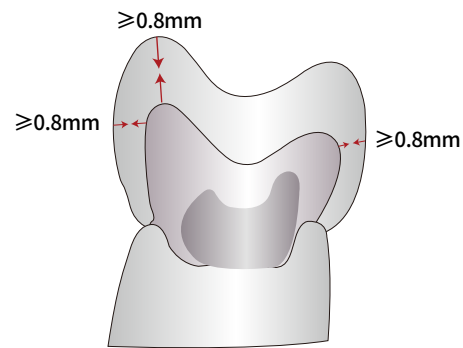


Inlay

└ Ideal design and preparation guidance »



Anterior Crown



Posterior Crown

Type of restoration		Crown	Bridge
Anterior	Wall thickness:		
	Buccal side	≥0.6mm	≥0.8mm
	Maxillofacial	≥0.8mm	≥0.8mm
	Connectors:		
	3 units	-	≥9mm ²
	4 units and above	-	≥9mm ²
Posterior	Wall thickness:		
	Buccal side	≥0.8mm	≥1.0mm
	Maxillofacial	≥0.8mm	≥1.0mm
	Connectors:		
	3 units	-	≥12mm ²
	4 units and above	-	≥12mm ²

[Shade and dimension >>>

SHTM has 16 classic Vita® hue to choose from.



Wieland	AMANN GIRRBACH	Zircon Zahn
D98*12 (H)	AG71*12 (H)	D95*12 (H)
D98*14 (H)	AG71*14 (H)	D95*14 (H)
D98*16 (H)	AG71*16 (H)	D95*16 (H)
D98*18 (H)	AG71*18 (H)	D95*18 (H)
D98*20 (H)	AG71*20 (H)	D95*20 (H)
D98*22 (H)	***	D95*22 (H)
D98*25 (H)	AG71*25 (H)	D95*25 (H)

[Digital work flow >>>

The SHTM series enables high quality fast sintering with a 2-hour fast firing curve compatible with bridges up to three units, resulting in shorter production times, lower costs and faster delivery times.



Courage

SHTM Full arch crown bridgeplanting case display

Gum porcelain

Main color A color

Cutting with blue 2+ black



Aidite[®]

Aidite (Qinhuangdao) Technology Co.,Ltd.

Tel : 0086-335-8587898

Web: www.aidite.com

Email: info@aidite.com

CFDA ISO13485 **CE**0197 **FDA**K111291



www.aidite.com