

Special for technician, dentist and professional

Silide Dental Zirconia Blocks

Product Instruction

Qinhuangdao Silide Ceramic Technology Co.,Ltd
www.silidechina.com

Main Ingredients

Component List	Silide Zirconia Block	ISO 13356 Requires
ZrO ₂ +HfO ₂ +Y ₂ O ₃	99.5%	≥99.0%
Y ₂ O ₃	4.8%	4.5% ~5.4%
Al ₂ O ₃	<0.5%	<0.5%
Other Oxide	<0.5%	<0.5%

Product Indications

Classification		HT	ST	Pre-shaded
Indication	Anterior	×	√	√
	Posterior	√	×	√
	Inlay	√	√	×
	Onlay	×	√	×
	Veneering	√	√	√
	Abutment	√	√	√
	Bridge	√	√	√

Note:

HT: High Translucent, ST: Super Translucent.

“√” means best choosing.

“×” means not best choosing.

Physical&Chemical Performance

Item	HT	ST	Pre-shaded
Color	White	White	White
Density Pre-Sintering (g/cm ³)	3.13	3.13	3.10
Density Post-Sintering (g/cm ³)	6.09	6.07	6.05
Fracture Strength (Mpa)	1200	1200	1100
Flexural Strength (Mpa)	1200	1200	1130
Vicker's Hardness (Mpa)	1470	1400	1380
Shrinkage Factor (%)	19-22	19-22	19-22
Young`s Modulus (Gpa)	210	210	200
Light Transmittance (%)	30	32	28
Chemical Solubility (ug/cm ²)	2.5	2.5	2.8
Radioactivity (Bq.g)	≤0.001	≤0.001	≤0.003

Note: Each lot has a little different, these data tested only as refer.

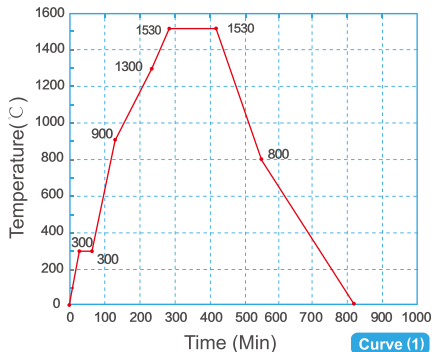
Biological Performance

Item	Silide Zirconia Disc	Comply ISO 6872
Cytotoxicity test	Grade of cytotoxicity: 0	Yes
Short term systemic toxicity test-oral route	No significant differences were found between tested group and control group. Indicated tested sample has no systemic toxicity.	Yes
Sensitization test (Delayed-type hypersensitivity test)	The scales of reactions of 10 animals were "0", less than "1". Indicated tested sample has no sensitization.	Yes
Intracutaneous reactivity test	Tested product by sodium chloride extraction is "0", by cotton seed oil extraction is 0.17, no irritation.	Yes
Ames Test	Mutation negative	Yes

Note: This data is from the Lab of Peking University.

Sintering for denture as follows

For single crown, not over 6 units bridge

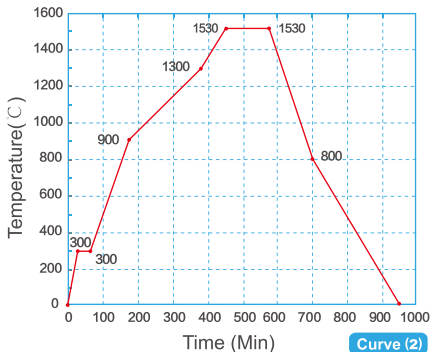


- 0°C~300°C: Ramp 10°C/min;
- 300°C~300°C: Holding 30min;
- 300°C~900°C: Ramp 12°C/min;
- 900°C~1300°C: Ramp 3°C/min;
- 1300°C~1530°C: Ramp 5°C/min;
- 1530°C~1530°C: Holding 120min;
- 1530°C~800°C: Ramp 6°C/min;
- 800°C~Room Temperature: Natural cooling.

Total time of sintering: Appr 13 hours

Note: The missing teeth are over 3 pcs of anterior or 2 pcs of posterior, recommended to use curve (2).

For over 6 units bridge



- 0°C~300°C: Ramp 10°C/min;
- 300°C~300°C: Holding 30min;
- 300°C~900°C: Ramp 5°C/min;
- 900°C~1300°C: Ramp 2°C/min;
- 1300°C~1530°C: Ramp 3°C/min;
- 1530°C~1530°C: Holding 120min;
- 1530°C~800°C: Ramp 6°C/min;
- 800°C~Room Temperature: Natural cooling.

Total time of sintering: Appr 16 hours

Using Method

- ★ Processing zirconia block with CAD/CAM milling machine.
- ★ Discharging denture from processed zirconia block.
- ★ Polishing denture (if need).
- ★ Dyeing with coloring liquid of zirconia(dyeing way and time are different regarding different brand of coloring liquid).
- ★ Sintering as page 3.

QMS (Quality Manage System):

ISO 13485:2012 No.: SX 60112626 0001

Quality certificates:

China FDA certificate No.: 2630301

CE certificate No.: DD 601126250001

Shelf Life: 5 years

Package: Each piece is packed by hard carton.

Storage: Cool and dry place, keep away from sunlight.

Waste Disposal: Does not pollute environment.

Manufacturer

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If you have any questions, please contact us.