

G-CERAM® BLOCKS

Glass Ceramic Block for CAD/CAM Systems

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Material Information

G-Ceram Block are feldspathic monochromatic glass ceramic blanks used to produce inlays, onlays, crown and veneers with CAD/CAM systems.

G-Ceram Block Glass-ceramics are formed as a result of a controlled crystallization in the glass phase as a result of various thermal processes applied. G-Ceram block has high strength by homogenous expansion of leucite crystals that are nucleated in glass phase through gradual heat treatment applications.

Indications

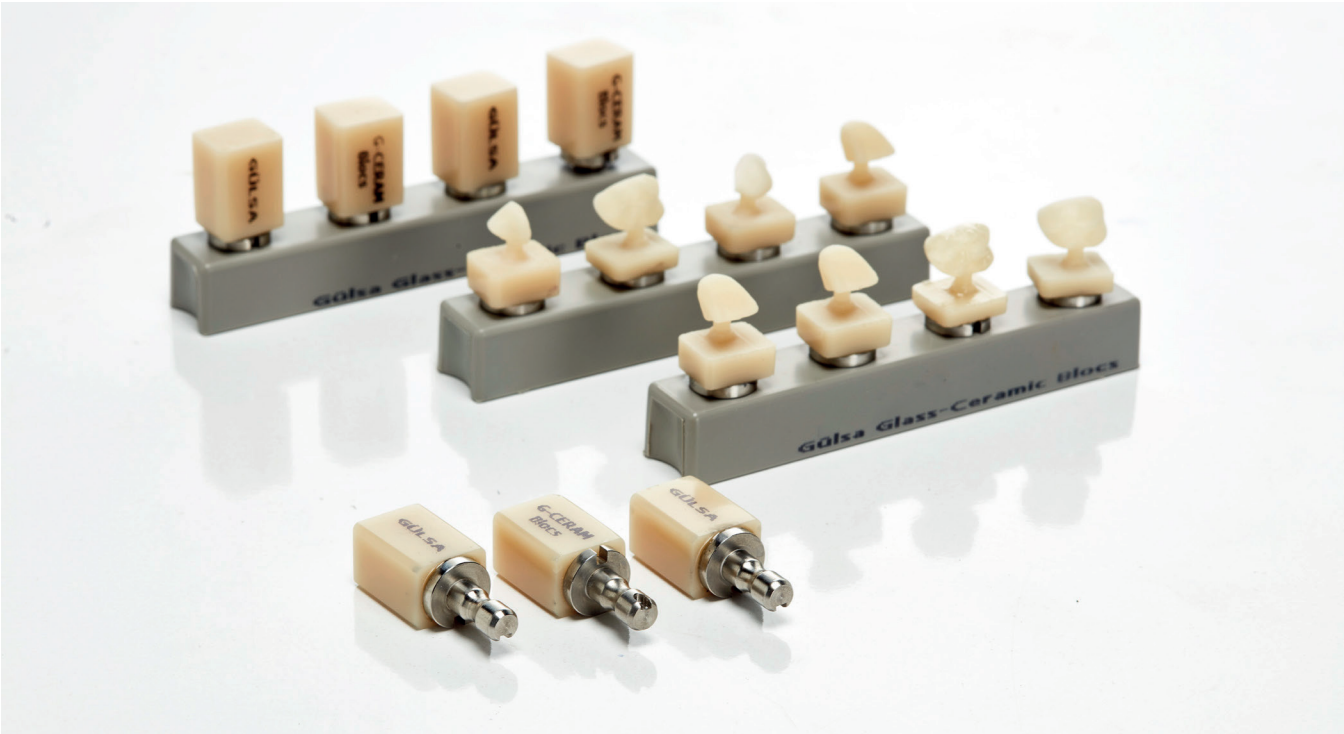
- Inlays
- Onlays
- Partial Crowns
- Veneers
- Occlusal Veneers
- Endocrowns (only for molars)
- Anterior Crowns
- Posterior Crowns

Contraindications

- Insufficient oral hygiene
- Insufficient preparation results
- Insufficient tooth structure
- Insufficient space available
- Bruxism

Chemical Composition

Components	% of total weight
SiO ₂	56 - 68
Al ₂ O ₃	18 - 25
Na ₂ O	8 - 12
K ₂ O	8 - 14
CaO	0,2 - 1,0
TiO ₂	0,1 - 0,2



Physical Properties

Property	Unit of Measure	Value
Coefficient of Thermal Expansion (CTE 25-500 °C)	10 ⁻⁶ K ⁻¹	12,5 - 13,5
Temperature of Glass Transition (TG)	°C	560 - 600
Hardness	Hv1	655 - 665
Biaxial Flexural Strength	Mpa	150
3-point Flexural Strength	Mpa	154
Opacity	%	75 - 80
Modulus of Elasticity	Gpa	58
Density	g/cm ³	2,4
Chemical Solubility	µg/cm ²	22

G-CERAM Block Size

Model	Dimensions
GB8	8 x 8 x 15 mm
GB10	8 x 10 x 15 mm
GB12	8 x 12 x 15 mm
GB14	8 x 14 x 18 mm

G-CERAM Block Available Shades

A1, A2, A3, A3,5, A4, B0, B1, B4, C1, C2

G-CERAM Block System Compatibility

G-CERAM Block are compatible with universal holder system and specific holder systems.