

initial LiSi Block

Fully Crystallized Lithium Disilicate

Natural beauty restored in one appointment



Since 1921

100 years of Quality in Dental



Natural beauty restored in one appointment

GC Initial® LiSi Block: new lithium disilicate block for one appointment dentistry

GC Initial® LiSi Block is a **fully crystallized lithium disilicate block** that delivers optimal physical properties without firing. This unique block features GC's proprietary **HDM** (High Density Micronization) **technology for CAD/CAM dentistry** to deliver high wear resistance, smooth margins and aesthetic final results. This makes it an ideal, time saving solution for single visit chairside treatments.



- Save time, as no firing is required
- Fully crystallized lithium disilicate
- Durable aesthetic & accurate margins
- Natural opalescence

Just Mill, Polish and Place

GC Initial® LiSi Block can dramatically reduce process time: no need to fire, glaze, characterize and cool. This saves up to 40% in the time* required to create your restorations, also reducing the chair time for you and your patient. You just need to mill, polish and place!

“Even if I love to characterize GC Initial® LiSi Block, it is perfect to polish with only a few handles and in max 5 minutes. Therefore, it’s a real & quick chairside solution.”

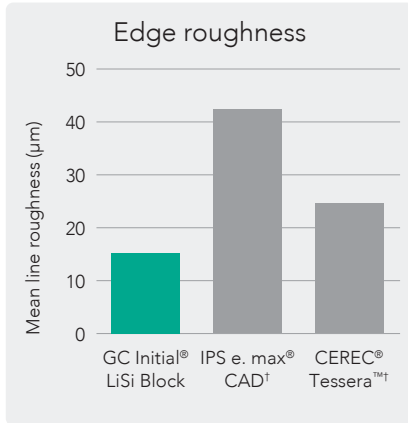
Dr. Andreas Kurbad, Germany

“Polishing GC Initial® LiSi Block is easy and can be done in less than 2 minutes, with a high-quality final surface finish and aesthetic appearance. The time saving compared to a glaze firing is particularly interesting.”

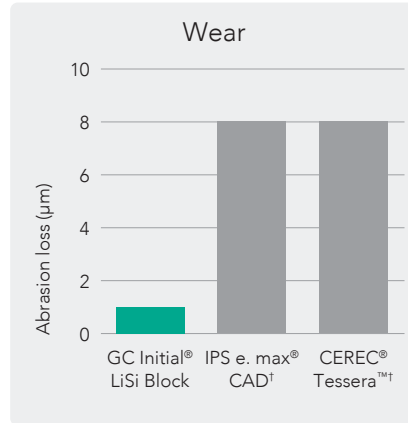
Dr. Christian Moussally, France

*Source: GC R&D, Japan, Data on file, Under testing conditions based on IFU.

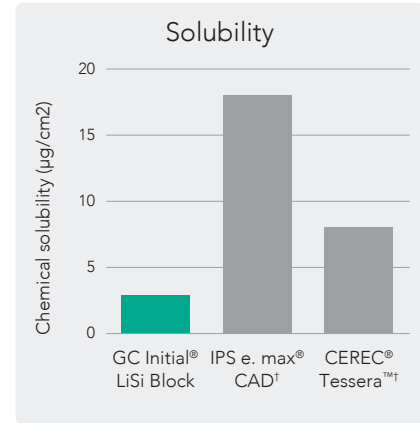
Durable aesthetics and smooth margins



Source: GC R&D, Japan, Data on file



Source: GC R&D, Japan, Data on file

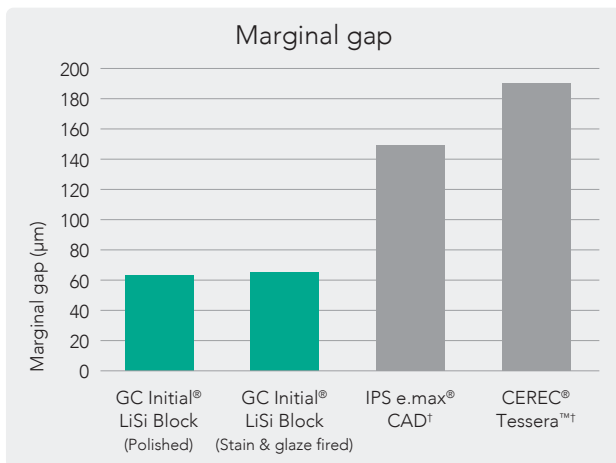


Source: GC R&D, Japan, Data on file

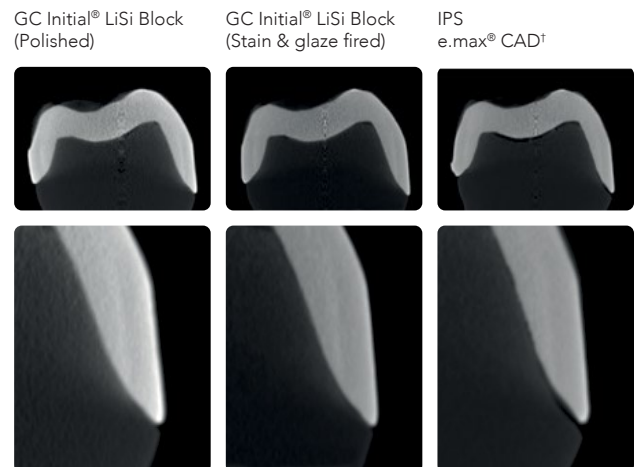
- Optimized acid and wear resistance to help preserve the aesthetics of your restorations over time.
- Excellent edge stability for smooth margins.

More accurate margins

Being fully crystallized before milling, GC Initial® LiSi Block can be milled with **smooth and accurate margins directly**. Alternatively, it can be fired after staining and maintain great marginal accuracy.



Source: GC R&D, Japan, Data on file



GC Initial® LiSi Block restoration under direct and indirect light.

Natural opalescence

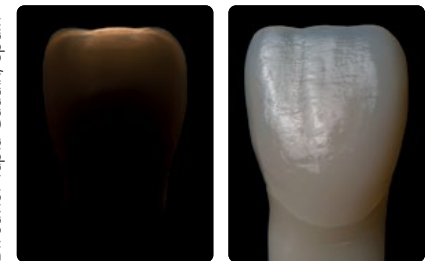
GC Initial® LiSi Block is available in high translucency (HT) and low translucency (LT) and offers a natural opalescence in any light.

Choose your preferred finishing procedure

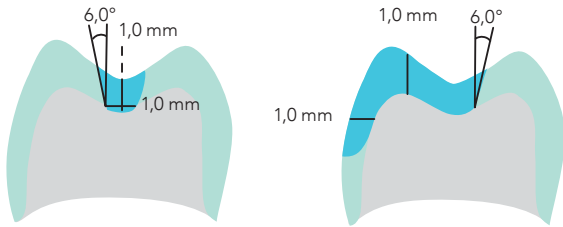
Superior gloss can be obtained in few minutes by polishing only, and the restoration is then ready for luting. For sophisticated aesthetic cases, remarkable results can be achieved with GC Initial® Lustre Pastes ONE and GC Initial® Spectrum Stains.**

** Higher temperature than the firing instruction may result in a change of the color of your restoration (higher value).

Courtesy of
Dr. Javier Tapia Guadix, Spain

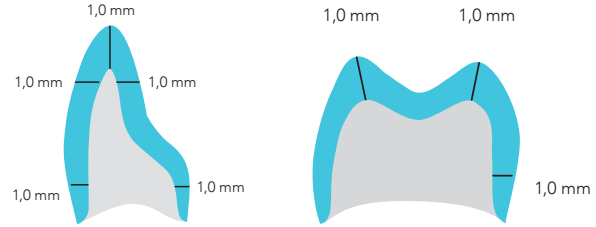


Preparation guidelines



Inlays / Onlays

- Cavity wall angle: 6° with long axis
- Shoulder preparation



Full crowns

- Wall angle: 6~10° taper
- Deep chamfer or round chamfer preparation

Cement recommendation

Adhesive luting is recommended for GC Initial® LiSi Block. Both G-CEM ONE™ and G-CEM LinkForce® from GC can be used for any type of indications using GC Initial® LiSi Block.



Function meets aesthetics

"This case milled beautifully without marginal chipping and saved me a lot of chair time, since it doesn't require any firing! Just polished and cemented."*

Karyn M. Halpern, DMD, MS



"GC Initial® LiSi Block has all of the advantages of lithium disilicate in terms of strength, esthetic, and bondability, without the need for firing."*

Yao-Lin Tang, DDS, San Mateo, CA



Courtesy of Karyn M. Halpern DMD, MS



Courtesy of Yao-Lin Tang, DDS

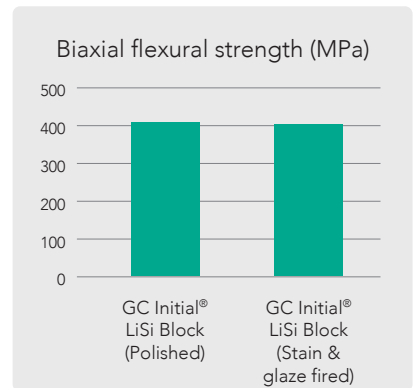


HDM technology for CAD/CAM dentistry



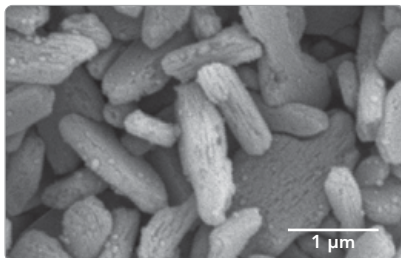
In 2016, with GC Initial® LiSi Press, GC introduced HDM (High Density Micro-nization) technology, which uses equally dispersed lithium disilicate micro-crystals to fill the entire glass matrix rather than using traditional larger size crystals. The clinical effectiveness of this technology has been proven after 5 years of clinical service¹⁾.

To bring fast solutions for one appointment dentistry, GC has further developed HDM technology for CAD/CAM dentistry by optimizing the crystal size and glass matrix stiffness. Thanks to this new technology, good machinability, marginal integrity, polishability, and wear resistance are achieved at the same time. The result is a strong and easy-to-mill block that offers the same strength with or without firing.



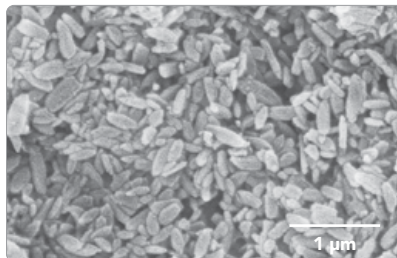
Source: GC R&D, Japan, Data on file

Conventional lithium disilicate (IPS e. max® CAD⁺)



Source: GC R&D, Japan, Data on file

HDM technology for CAD/CAM (GC Initial® LiSi Block)



Improved glass matrix stiffness for high mechanical strength

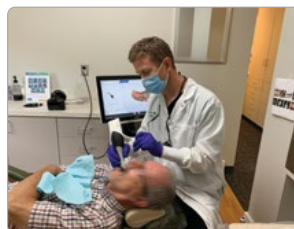
Smaller crystal for easy milling and high wear resistance

Workflow

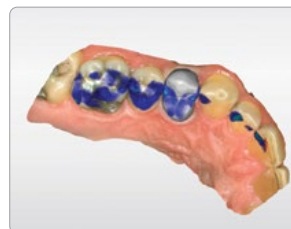
(Courtesy of Dr. Mark Kleive)



Prepare



Scan



Design



Mill



Polish or characterize



Condition



Cement



Final result

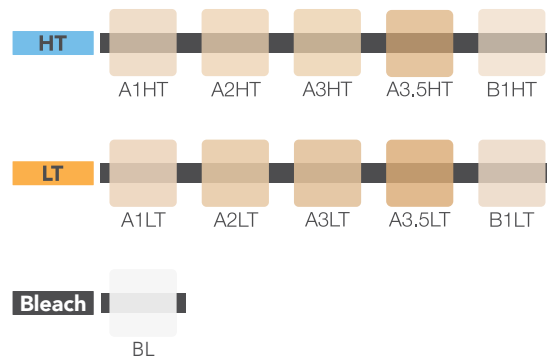
initial[®] LiSi Block

Ordering information



Ref.	Shade	GC Initial [®] LiSi Block CEREC [®] † mandrel, size 14
012927	A1 HT	
012928	A2 HT	
012929	A3 HT	
10037279	A3.5 HT	
012930	B1 HT	
012931	A1 LT	
012932	A2 LT	
012933	A3 LT	
10037280	A3.5 LT	
012934	B1 LT	
10037281	BL	

Shade range



1) Cagidiaco EF, Sorrentino R, Pontoriero D, Ferrari M. 2020. A randomized controlled clinical trial on two types of lithium disilicate partial crowns. Am J Dent. 33(6):291-295.

Related products



G-Multi PRIMER™
Universal Primer



G-CEM ONE™
Self-adhesive
resin cement



**GC Initial[®] IQ
Lustre Pastes ONE**
3-dimensional paintable
ceramic

GC America Inc.
3737 West 127th Street
Alsip, IL 60803
800.323.7063
www.gcamerica.com
© 2023 GC America Inc.