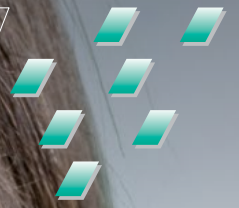


Natural beauty restored  
in one appointment



*initial*<sup>®</sup>  
LiSi Block

Lithium Disilicate  
CAD/CAM Block for  
chairside solutions



Since 1921  
100 years of Quality in Dental

# Natural beauty restored in one appointment

## GC Initial<sup>®</sup> LiSi Block: new lithium disilicate block for one appointment dentistry

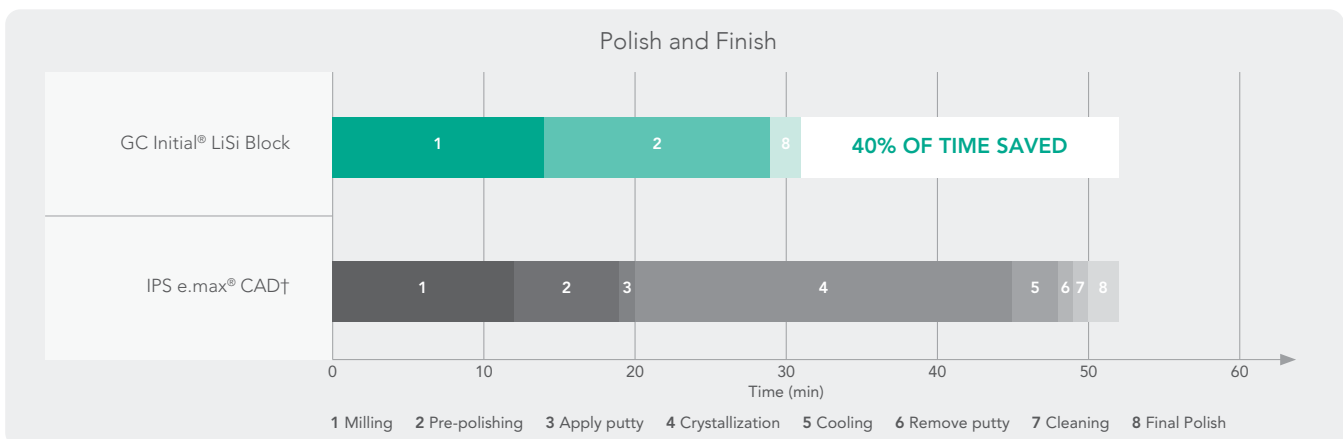
GC Initial<sup>®</sup> LiSi Block is a **fully crystallized lithium disilicate block** that delivers optimal physical properties without firing. This unique block features GC's proprietary **HDM (High Density Micronization) technology for CAD/CAM dentistry** to deliver high wear resistance, smooth margins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



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

## Just Mill, Polish and Place

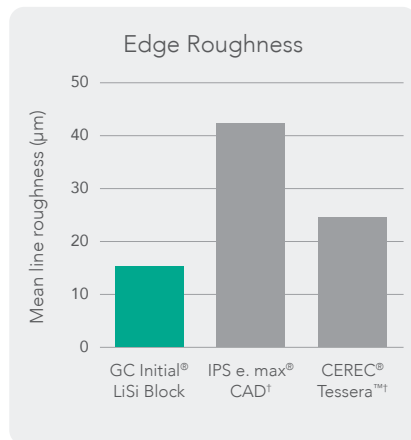
GC Initial<sup>®</sup> LiSi Block can dramatically reduce process time: no need to fire, glaze, characterize and cool. This saves up to **40% in the time\*** required to create your restorations, also reducing the chair time for you and your patient. You just need to mill, polish and place!



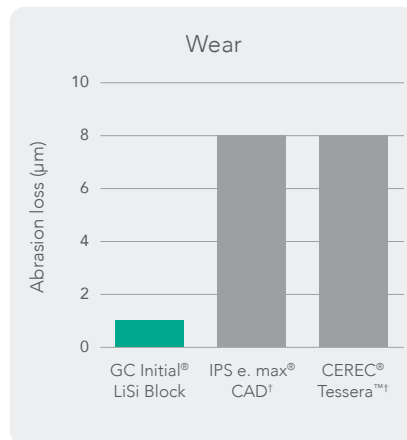
Source: GC R&D, Japan, Data on file.

\*Under testing conditions based on IFU.

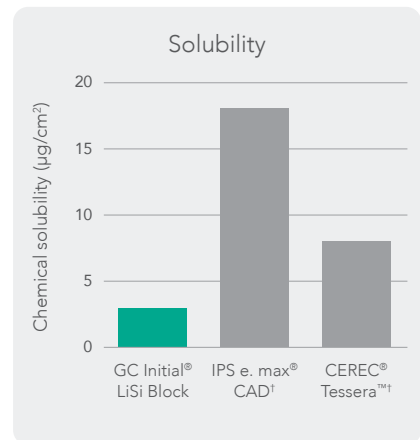
# Durable esthetics and smooth margins



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



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

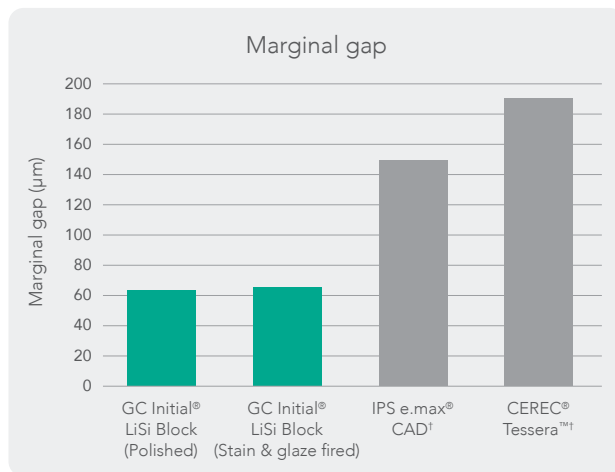


Source: GC R&D, Japan, Data on file

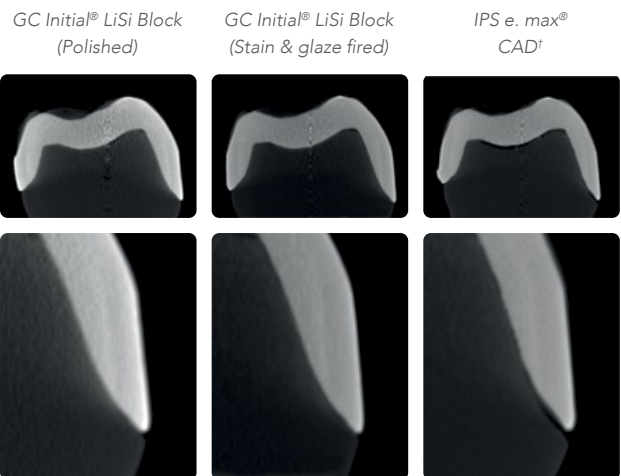
- Optimized acid and wear resistance to help preserve the esthetics of your restorations over time.
- Excellent edge stability for smooth margins.

## 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



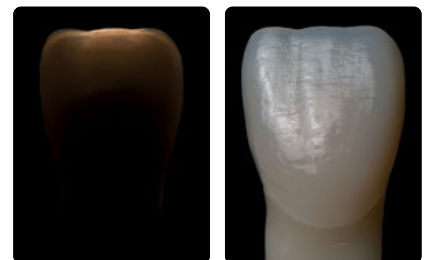
GC Initial® LiSi Block restoration under direct and indirect light.

## Natural opalescence

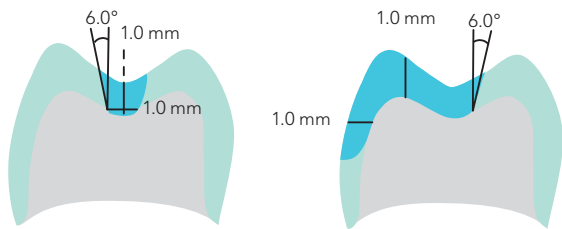
GC Initial® LiSi Block is available in high translucency (HT) and low translucency (LT) and offers a natural opalescence in any light.

## 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® IQ Lustre Pastes NF and GC Initial® Spectrum Stains.

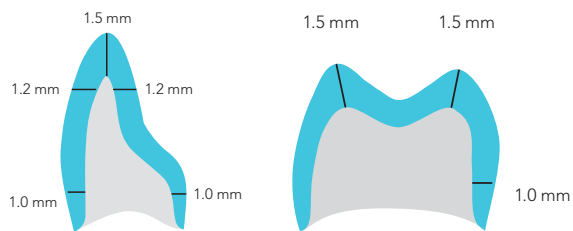


Courtesy of Dr. Javier Tapia Guadix, Spain



### 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 esthetics

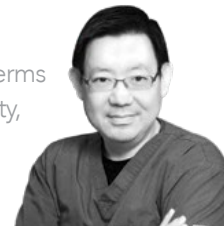
«This case milled beautifully without marginal chipping and saved me a lot of chair time, since it doesn't require any firing! Just polished and cemented.»\*

Karyn M. Halpern, DMD, MS  
Port Jefferson Station, NY



«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

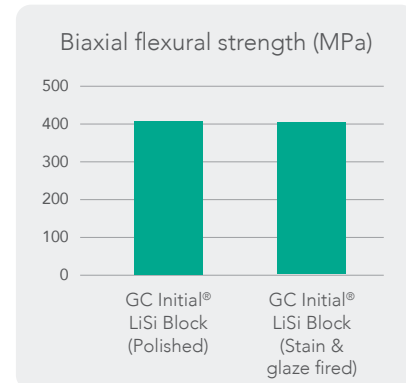


# HDM technology for CAD/CAM dentistry



In 2016, with GC Initial® LiSi Press, GC introduced HDM (High Density Micronization) 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 service<sup>1)</sup>.

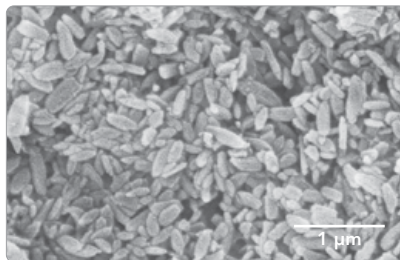
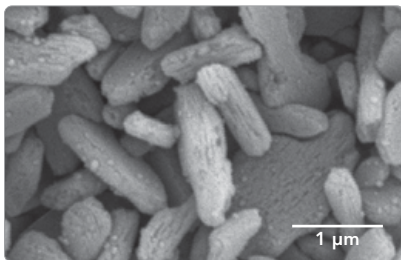
To bring fast solutions for one appointment dentistry, GC has further developed HDM technology for CAD/CAM dentistry by optimizing the crystal size and glass matrix stiffness. Thanks to this new technology, good machinability, marginal integrity, polishability, and wear resistance are achieved at the 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<sup>1)</sup>)

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

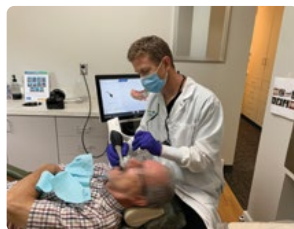
Source: GC R&D, Japan, Data on file.

## Workflow

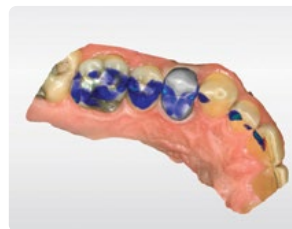
Courtesy of Dr. Mark Kleive



Prepare



Scan



Design



Mill



Polish or characterize



Condition



Cement



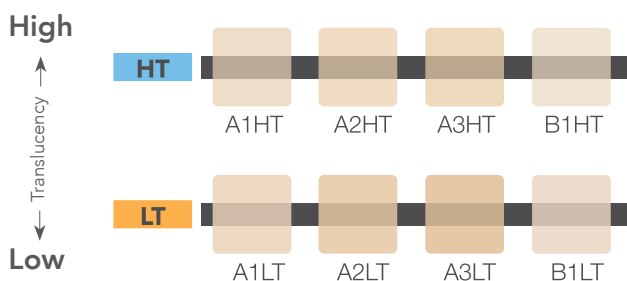
Final result

# Ordering information



## GC Initial® LiSi Block CEREC®<sup>†</sup> Mandrel, size 14

Ref.	Shade
012927	A1 HT - CEREC® <sup>†</sup>
012928	A2 HT - CEREC® <sup>†</sup>
012929	A3 HT - CEREC® <sup>†</sup>
012930	B1 HT - CEREC® <sup>†</sup>
012931	A1 LT - CEREC® <sup>†</sup>
012932	A2 LT - CEREC® <sup>†</sup>
012933	A3 LT - CEREC® <sup>†</sup>
012934	B1 LT - CEREC® <sup>†</sup>



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-CEM ONE™**



**G-CEM LinkForce®**



**GC Initial® IQ Lustre Pastes NF**

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