

Natural beauty  
restored



*initial*<sup>™</sup>  
LiSi Block

Fully crystallised Lithium  
Disilicate CAD/CAM Block

*'GC.'*

# Natural beauty restored

## Initial LiSi Block: strength, precision and aesthetics in a fully crystallised block

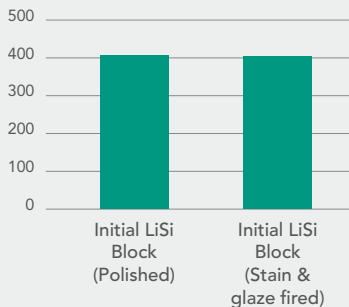
Initial LiSi Block is a **fully crystallised lithium disilicate block** that delivers optimal physical properties without firing. This unique block features the proprietary **HDM (High Density Micronisation) technology for CAD/CAM dentistry** to deliver high wear resistance, smooth margins and aesthetic results. When used with the ONE SQIN technique - the paintable colour-and-form ceramic system - you can quickly and easily achieve more aesthetic results.

- ✓ Save time, as no crystallisation firing is required
- ✓ Durable aesthetics
- ✓ Seamless margins
- ✓ Natural opalescence
- ✓ An ideal base for the ONE SQIN technique



### HDM technology for CAD/CAM dentistry

Biaxial flexural strength (MPa)

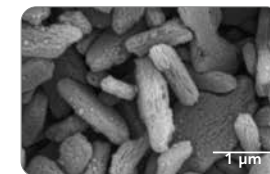


In 2016, with LiSi Press, GC introduced the HDM (High Density Micronisation) technology. HDM uses equally dispersed lithium disilicate micro-crystals to fill the entire glass matrix rather than using traditional larger size crystals. The clinical efficiency of this technology has been proven after 5 years of clinical service<sup>1</sup>.

To bring faster solutions for indirect restorations, GC has further developed the HDM technology for CAD/CAM dentistry by optimising 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.

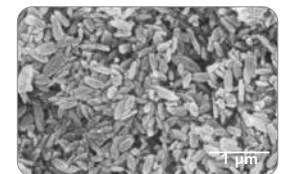
Being fully crystallised before milling, high strength is present from the start, which makes additional firing not required.

Conventional lithium disilicate (IPS e.max CAD)



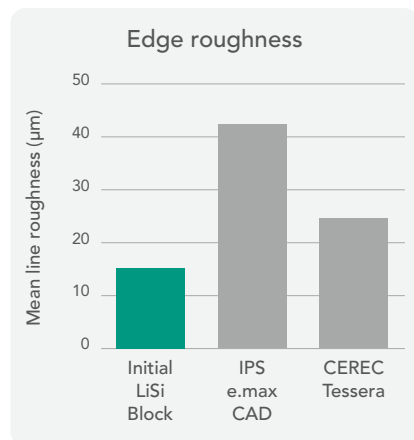
**Smaller crystals** for easy milling, high wear resistance and natural opalescence.

HDM technology for CAD/CAM (Initial LiSi Block)

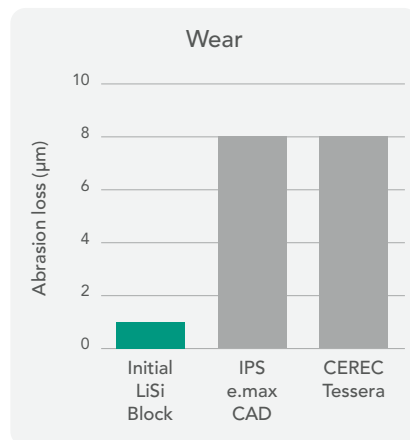


**Improved glass matrix** stiffness to reach high mechanical strength.

# 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

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

## Accurate margins

Since Initial LiSi Block is already fully crystallised before milling, **smooth and accurate margins** are observed directly after milling. When fired after ceramic painting & glazing, this great marginal accuracy is maintained.



Initial LiSi Block

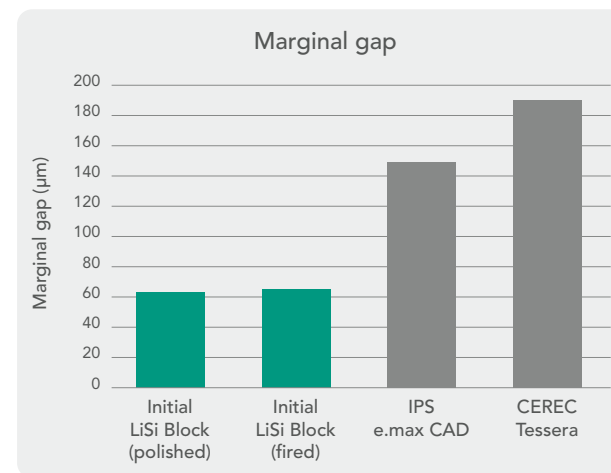


e.max CAD

Ideal marginal integrity with Initial LiSi Block



Courtesy of ZTM Stefan Roosen, Austria

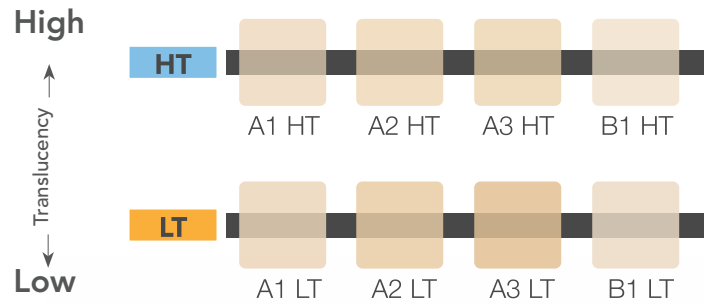


Source: GC R&D, Japan, Data on file



Courtesy of MDT Djemal Ibraimi, Switzerland

## Colour line-up and indications



## Choice of translucency in accordance with the indication

	Anterior crown	Posterior crown	Inlay	Onlay	Veneer
HT	👍 👍	👍	👍 👍 👍	👍 👍 👍	👍 👍 👍
LT	👍 👍 👍	👍 👍 👍	👍 👍	👍 👍	👍



## Natural opalescence

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

Initial LiSi Block restoration under direct and indirect light.



Courtesy of Dr. Javier Tapia Guadix, Spain

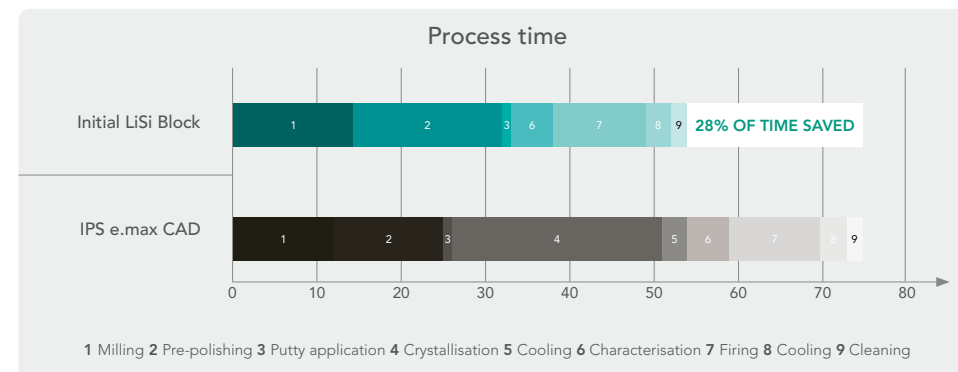
## Choose your preferred finishing procedure

Initial LiSi Block offers reduced process time thanks to the obsolete crystallisation. This results in a time-saving process compared to conventional lithium disilicate CAD/CAM blocks. Superior gloss can be obtained in only a few minutes by polishing only.

Polishing technique



Courtesy of  
ZTM Carsten Fisher,  
Germany



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

## Just Mill, Paint and Place

With GC Initial IQ ONE SQIN - the paintable colour-and-form ceramic system - you can quickly and easily achieve highly aesthetic results, comparable to conventionally layered restorations but with a significant time gain.

### How does it work? You choose ...

**Painting technique** - For all your monolithic posterior work, Initial Lustre Pastes ONE, the unique 3D paintable ceramics from GC, bring fluorescence, unsurpassed vitality and a natural glaze ... just by painting.

**Micro-layering technique** - For sophisticated aesthetic cases in the anterior region, the Lustre Paste ONE and the SQIN ceramic are combined offering unique application and modelling properties that will facilitate surface texturing with self-glazing properties after ceramic firing.

## Workflow



Courtesy of ZTM Stefan Roozen, Austria

# Create colour, form and texture with Initial™ ONE SQIN



Courtesy of ZTM Stefan Roozen, Austria

Initial LiSi Block framework

Step 1: colour and effects  
Lustre Pastes ONE  
Application & firing

Step 2: form and texture  
Application & firing

READY!

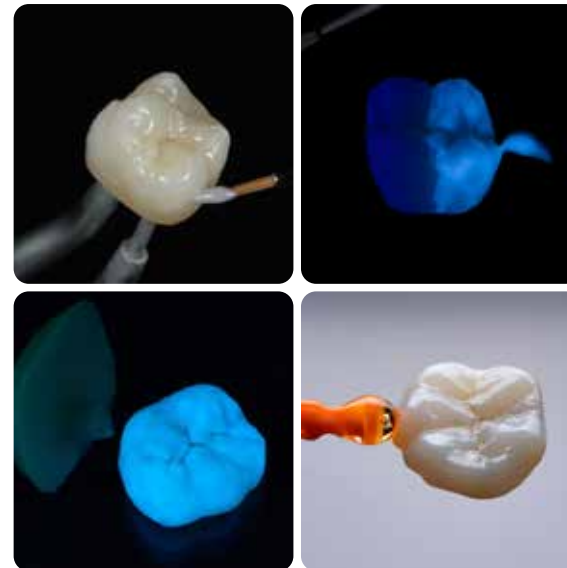
## Adding natural fluorescence and gloss



Courtesy of M. Brusch, Germany

Colour & gloss  
Initial LiSi Block  
+ Lustre Pastes ONE

Colour, form & gloss  
Initial LiSi Block  
+ Lustre Pastes ONE  
+ Initial ONE SQIN



Courtesy of Dr. Javier Tapia Guadix, Spain

Lustre Pastes ONE on Initial LiSi Block

# Function meets Aesthetics



«I'm totally excited about the natural opalescence and colour matching of the HT version of Initial LiSi Block.»

MDT Christian Hannker,  
Germany



Courtesy of MDT Marco Muttone, Dr. Alessandro Iorio, Italy



Courtesy of MDT Christian Hannker & Dr. Christian Lampson, Germany



«I love the opalescence of Initial LiSi Block and as a consequence thereof the colour stability and perfect matching.»

Dr. Christian Lampson,  
Germany

## Cement recommendation

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

INDICATIONS		RECOMMENDATION		
		 Dual-cure adhesive resin G-CEM LinkForce	 Self-adhesive resin G-CEM ONE	 Light-cure adhesive resin G-CEM Veneer
Veneers			 With Adhesive Enhancing Primer	 <2mm
Inlays/Onlays			 With Adhesive Enhancing Primer	 <2mm
Crowns				

# Ordering information



Initial LiSi Block	
CEREC mandrel, size 14	
Ref.	Shade
012919	A1 HT
012920	A2 HT
012921	A3 HT
012922	B1 HT
012923	A1 LT
012924	A2 LT
012925	A3 LT
012926	B1 LT

## Related products



**Initial IQ  
Lustre Pastes ONE**  
Paintable ceramic with  
increased fluorescence



**Initial IQ ONE SQIN**  
Paintable  
colour-and-form  
ceramic system



**G-CEM ONE**  
Self-adhesive resin  
cement

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.

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100 years of Quality in Dental