initial™ LiSi Block

Fully Crystallized Lithium Disilicate

Natural beauty restored

Smile for the World

Since 1921

100 years of Quality in Dental

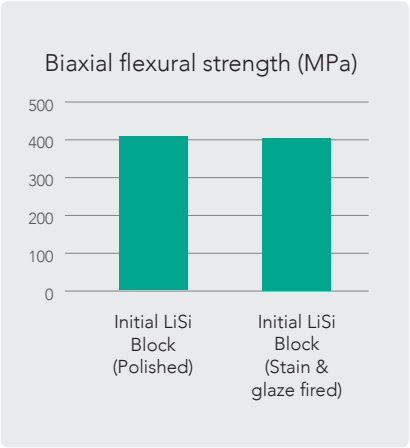
Natural beauty restored

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

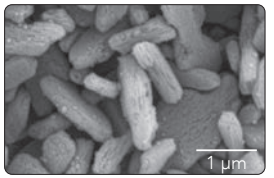


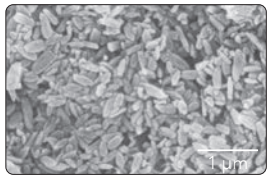
In 2016, with LiSi Press, GC introduced the HDM (High Density Micronisation) technology. HDM uses equally dispersed lithium disilicate micro-crystals to fill the entire glass matrix rather than using traditional larger size crystals. The clinical efficiency of this technology has been proven after 5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

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)

HDM technology for CAD/CAM (Initial LiSi Block)

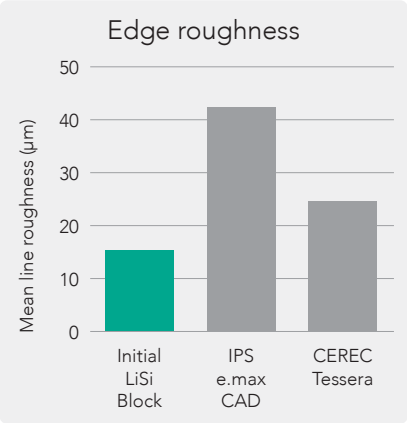




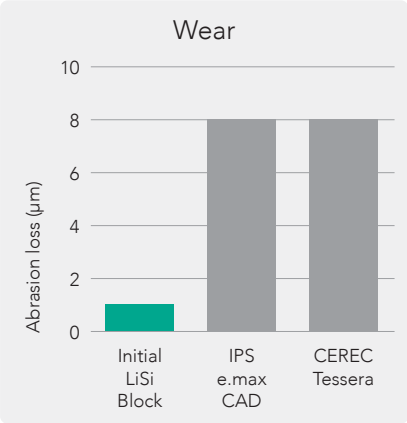
Smaller crystals for easy milling, high wear resistance and natural opalescence.
Improved glass matrix stiffness to reach high mechanical strength.

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

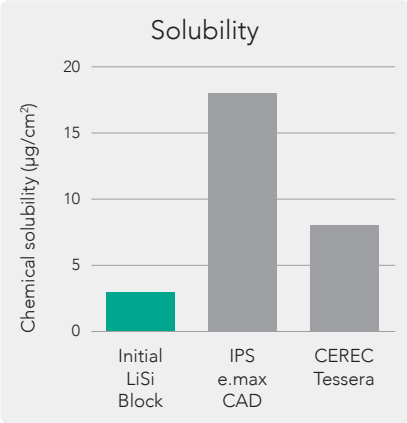
Durable aesthetics and smooth margins



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



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

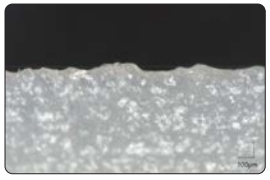


Source: GC R&D, Japan, Data on file

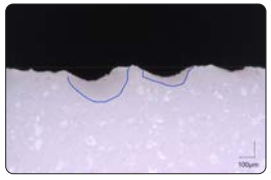
Optimised acid and wear resistance to help preserve the aesthetics of your restorations over time.
Excellent edge stability for smooth margins.

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.



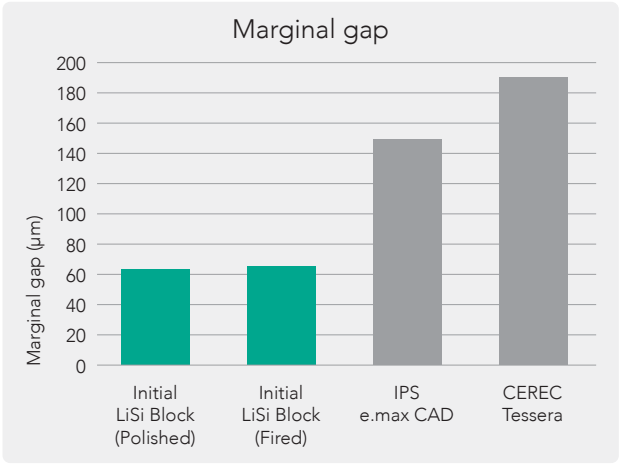
Initial LiSi Block



IPS e.max CAD

Ideal marginal integrity with Initial LiSi Block

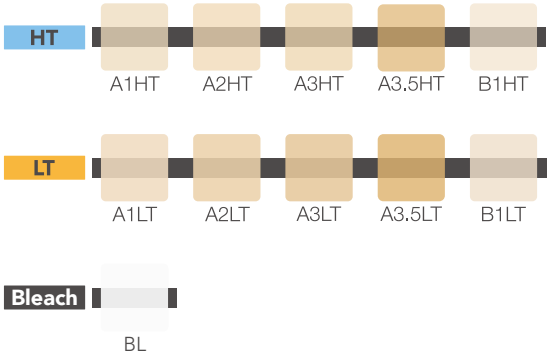
Courtesy of ZTM Stefan Roozen, Austria



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

Courtesy of MDT Djemal Ibraimi, Switzerland

Colour line-up and indications



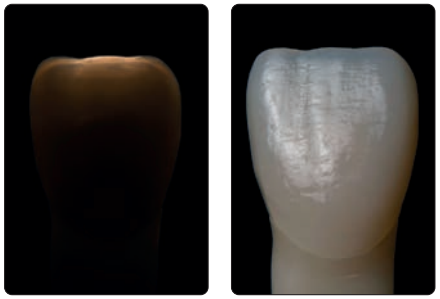
Choice of translucency in accordance with the indication

	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

«Polishing 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

Just Mill, Paint and Place

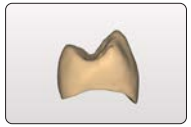
With GC Initial IQ ONE SQIN - the paintable colour-and-form ceramic system - you can quickly and easily achieve highly aesthetic results, comparable to conventionally layered restorations but with a significant time gain.

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

Scan & design					
Mill & prepare					
Colour & form					
Finish					Courtesy of ZTM Stefan Roozen, Austria

Create colour, form and texture with Initial™ ONE SQIN

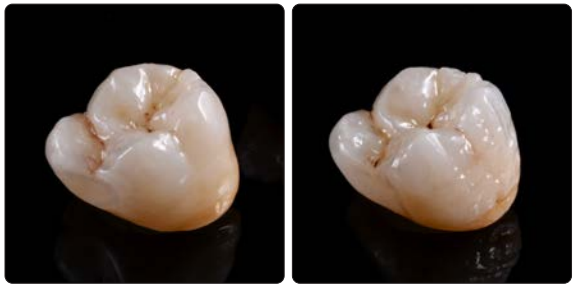
Courtesy of ZTM Stefan Roozen, Austria

Initial LiSi Block framework

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

Step 2: form and texture
Application & firing

READY!

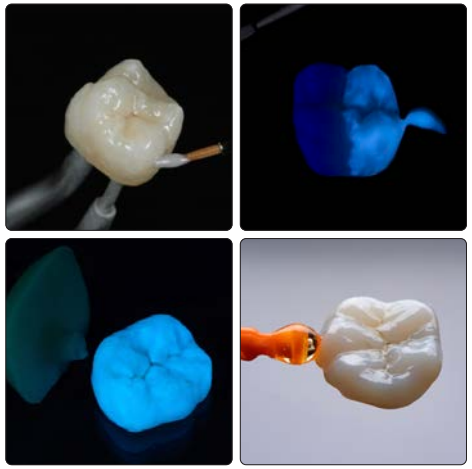


Courtesy of M. Brusch, Germany

Colour & gloss
Initial LiSi Block
+ Lustre Pastes ONE

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

Adding natural fluorescence and gloss



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 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



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

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	 Self-adhesive resin G-CEM ONE Paste Pak
Veneers			 With Adhesive Enhancing Primer	 With Adhesive Enhancing Primer
Inlays/Onlays			 With Adhesive Enhancing Primer	 With Adhesive Enhancing Primer
Crowns				

initial™ LiSi Block

Ordering information

Ref.	Shade
0139F2270010	A1 HT
0139F2270020	A2 HT
0139F2270030	A3 HT
10037291	A3.5 HT
0139F2270040	B1 HT
0139F2270050	A1 LT
0139F2270060	A2 LT
0139F2270070	A3 LT
10037292	A3.5 LT
0139F2270080	B1 LT
10037293	BL

Initial LiSi Block
CEREC mandrel, size 14

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

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

GC ASIA DENTAL PTE LTD
5 Tampines Central 1,
Tampines Plaza 2, #06-01
Singapore 529541
Tel. +65 6546 7588
gcasia@gc.dental
https://sea.gcasiadental.com