



.'GC.'

*initial*™ LiSi Press

Lithium Disilicate Redefined

Natural beauty restored





# GC Initial™ LiSi Press

## The revolutionary pressable ceramic

Imagine a pressable ceramic that outperforms all existing products.

Imagine a pressable ceramic that is stronger, more durable, has better aesthetics and saves you significant lab time.

### The first lithium disilicate ceramic with HDM technology

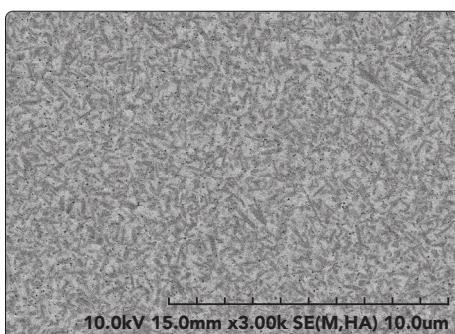
**GC Initial LiSi Press** is the first lithium disilicate ceramic ingot with High Density Micronization (HDM), a technology unique to GC that provides unsurpassed physical properties and the most natural, lifelike aesthetics of any pressed ceramic option on the market today. HDM uses equally dispersed lithium disilicate micro-crystals to fill the entire glass matrix rather than using traditional larger size crystals that do not take full advantage of the matrix structure. The result is the ultimate combination of strength and aesthetics, making **GC Initial LiSi Press** perfectly suitable for all types of restoration through all levels of transparency. Critically, HDM technology helps ensure the product remains super stable, without distortion or drop in value, even after multiple firings.

**GC Initial LiSi Press** has an extremely high density thanks to:

- optimised components
- a proprietary innovative new manufacturing technology (HDM technology)



### High Density Micronization



HDM - High Density Micronization





Initial LiSi Press





## Press for a beautiful smile

**GC Initial LiSi Press** is optimised to be used with the rest of the GC Initial family, including the already proven GC Initial LiSi veneering ceramic and GC Initial IQ Lustre Pastes ONE – our universal 3D paintable ceramics, further enhancing aesthetics over the widest possible indications. And remember too, use **GC Initial LiSi Press** with our dual-cure adhesive resin cement, G-CEM LinkForce, and you will achieve extraordinarily strong and durable bonds.

## Love GC Initial LiSi Press:

- Unsurpassed flexural strength
- Unparalleled aesthetics
  - Richer, warmer, brighter colours with excellent fluorescence
  - Predictable material and colour stability after repeated firings
  - Optimised for use with GC Initial LiSi veneering ceramic and GC Initial IQ Lustre Pastes ONE
- Real time savings
- Lower solubility than other leading brands – permanent gloss
- Antagonist-friendly and wear-resistant
- Almost no reaction layer when divested – cleaner presses
  - Easy layer removal with glass bead blasting – no hydrofluoric acid
- Seamless learning curve





Initial LiSi Press

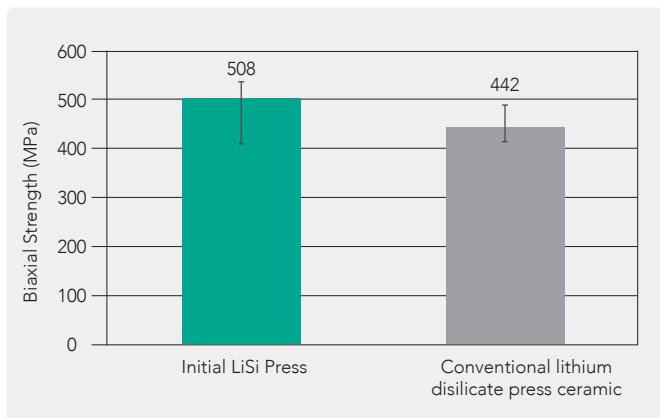




# Unsurpassed physical properties

## High flexural strength

Biaxial Flexural Strength of Press Ceramics



Data on file.

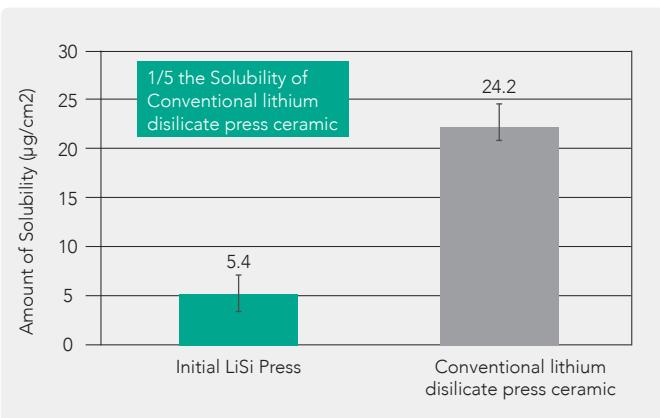
Data on file.



GCC R&D Internal test results  
following ISO6872:2015 (data on file)

## Lower solubility

Amount of Solubility for each Sample under 4 vol.% Acetic Acid

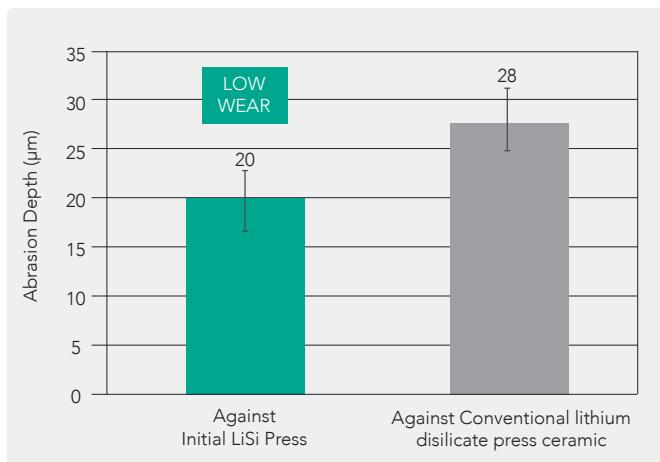


Data on file.

Data on file.

## Antagonist friendly

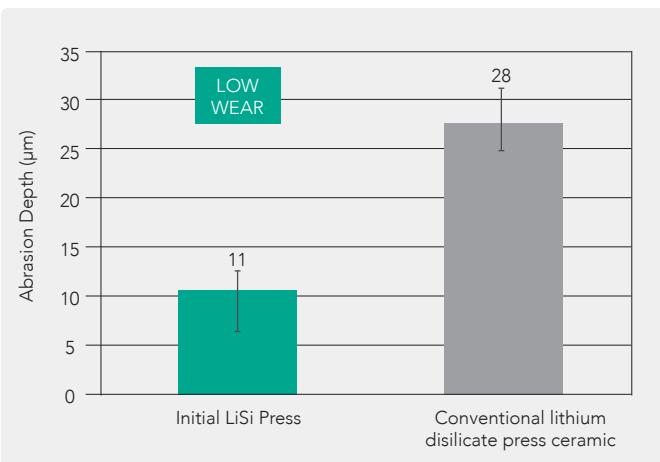
Abrasion Depth of HA<sub>1</sub>P Antagonist after 400,000 Slides



Data on file.

## Wear resistant

Abrasion Depth of Material after 400,000 Slides



Data on file.



# Unparalleled aesthetics

## Shade Selection

- Simplified shade line-up
- Reduction of inventory and cost
- Adaptable for a highly aesthetic build-up

Translucency Level	Bleach		A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4		
HT	HT-EXW		BLE+	HT-BLE	HT-E58		HT-E59		HT-E60	HT-E57	HT-E59		HT-E60	HT-E59		HT-E60		HT-E59		
MT	MT-B00		BT+	MT-B0	MT-A1	MT-A2	MT-A3	MT-A3.5	MT-A4	MT-B1	MT-B2	MT-B3	MT-B4	MT-C1	MT-C2	MT-C3	MT-C4	MT-D2	MT-D3	MT-D4
LT	LT-B00		BT+	LT-B0	LT-A1	LT-A2	LT-A3	LT-A3.5	LT-A4	LT-B1	LT-B2	LT-B3	LT-B4	LT-C1	LT-C2	LT-C3	LT-C4	LT-D2	LT-D3	LT-D4
LT-IQ			LT-A		LT-B		LT-C		LT-D											
MO	MO-0		MO-1		MO-2		MO-1		MO-2		MO-1		MO-2							



## Available in 4 translucencies

### High Translucency (HT) – Enamel replacement

Best transparency match to natural tooth enamel, does not look dark (low value) in the mouth.



### Medium Translucency (MT) – Press & stain

V-Shade line-up with warm colors from the Initial family of ceramic materials.



### Low Translucency (LT) – Stain or layer

Low translucency ingots, following the V-Shade line-up. Ideal for staining or cut-back layering with GC Initial LiSi.



### Low Translucency (LT-IQ) – One body concept A, B, C, D or Layer

Compact color line-up following the One Body concept.



### Medium Opacity (MO) – Layering

Thanks to strong fluorescence, a life-like sense of colour can be reproduced when veneering Initial LiSi Porcelain.





# Processing & indications



Courtesy MDT. Quini G., Spain



Courtesy MDT. D. Ibraimi, Switzerland

	Processing techniques			Indications				
	Staining Technique	Cut-Back Technique	Layering Technique	Veneers	Inlays	Onlays	Crowns	3-Unit Bridges
HT	•			•	•	•		
MT	•	•		•	•	•	•	•
LT	•	•					•	•
LT-IQ		•	•				•	•
MO			•				•	•

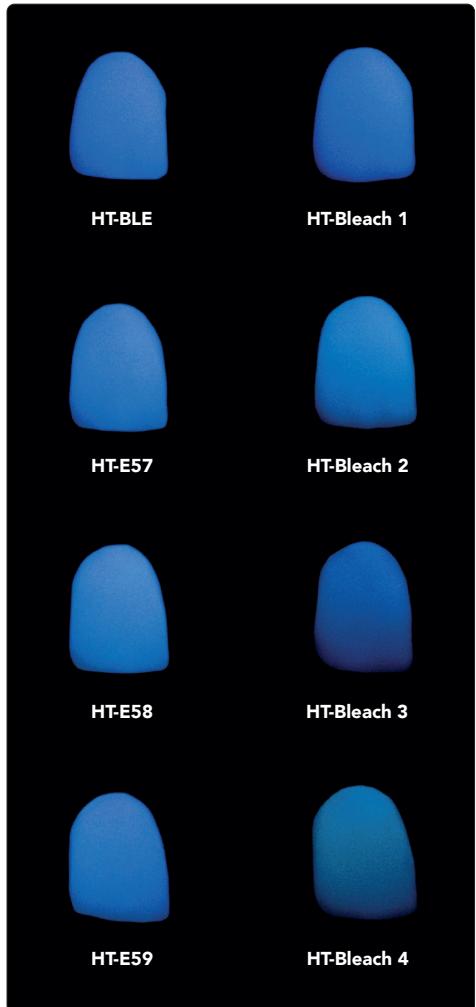


Initial LiSi Press

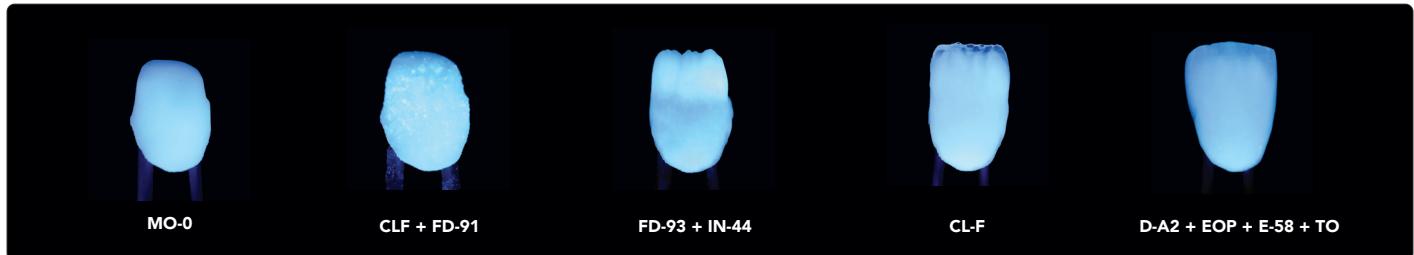
# Natural light dynamics

GC Initial LiSi Press

Conventional lithium  
disilicate press ceramic



Fluorescence starts from the internal frame  
MO-0 layered with GC Initial LiSi



Courtesy MDT. S. Maffei, Italy

## Natural opalescence

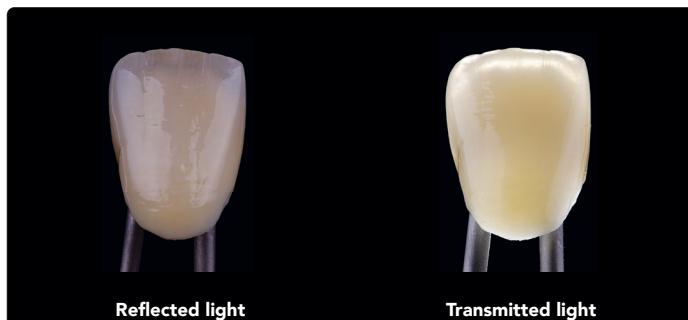


Image with courtesy of MDT. S. Roozen, Austria

## Vibrant & brighter color tones

GC Initial LiSi Press  
MT-A2





# Unparalleled aesthetic system approach

Optimised for use with GC Initial LiSi veneering ceramic and GC Initial IQ Lustre Pastes ONE, adding extra vitality to your pressed crowns!



Courtesy MDT. M. Brusch, Germany

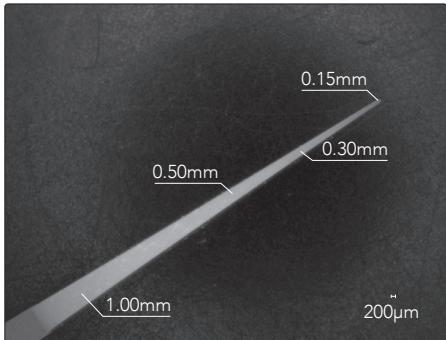




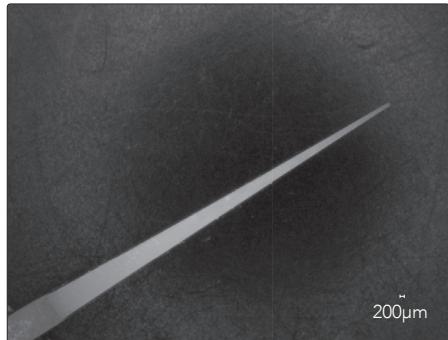
Initial LiSi Press

# Stability during multiple firings

Initial LiSi Press  
Before firing



Initial LiSi Press  
After firing



Simulating the margin, specimen with edge was fired repeatedly. No warping or cracking after multiple firings.

Initial LiSi Press



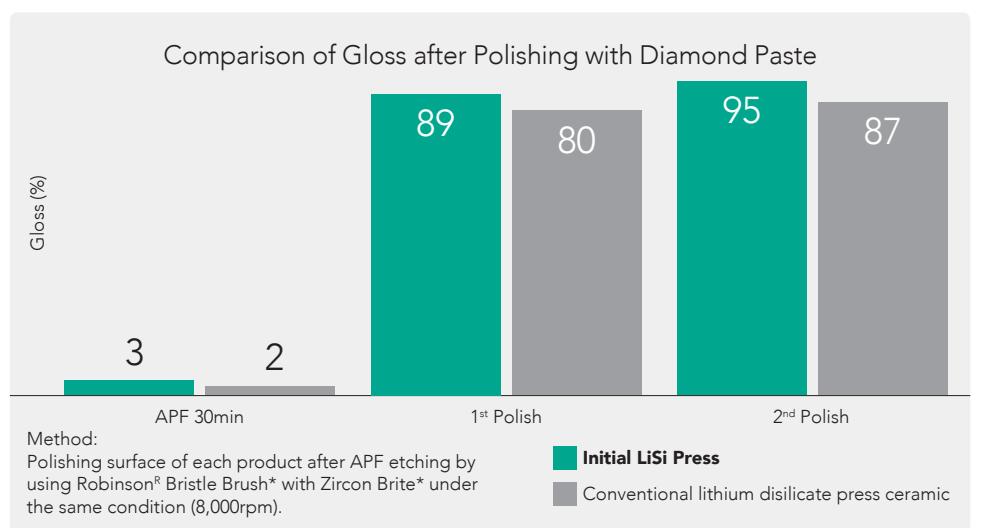
Conventional lithium disilicate press ceramic



Results after 5th firing (770°C 1min, Hold). Test conducted by Masayuki Hoshi, RDT.

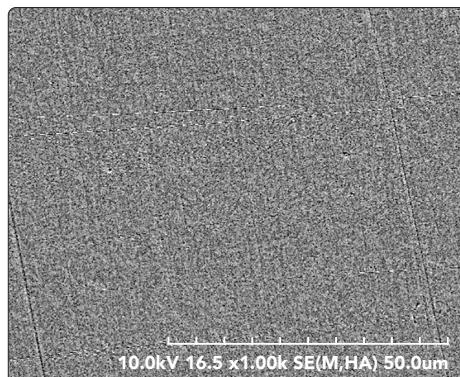
# Superior polishability

Comparison of Gloss after Polishing with Diamond Paste

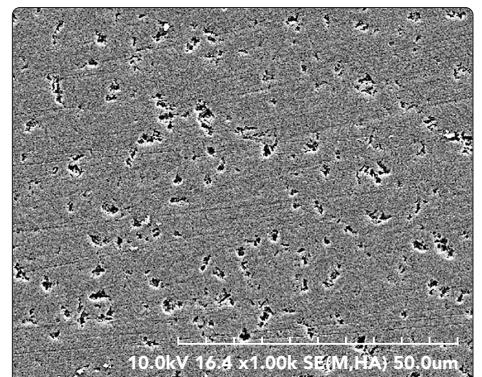


Data on file.

Initial LiSi Press  
Polished surface (2nd polish)



Conventional lithium disilicate press ceramic polished surface (2nd polish)



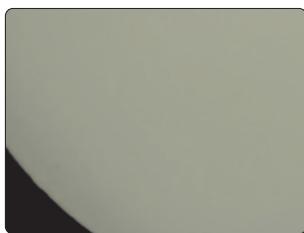


# Invest & Press GC LiSi PressVest

Investing made easy!

- High fluidity
- Long working time
- Stable setting time
- More flexible time to furnace
- Time savings – great for lab workflows
- Wider sprueing capacity
- Better internal adaptation
- Easy removal of reaction layer
  - no hydrofluoric acid

It's simply easier to use!



Initial LiSi Press



Conventional lithium disilicate  
press ceramic system



Courtesy MDT. M. Brusch, Germany



There is only a minimal reaction layer with GC LiSi PressVest, and it is easily removed just with glass beads. There is no need for hazardous hydrofluoric acid or alumina blasting. A key element in reaction layer inhibition is the GC LiSi PressVest SR (Surface Refining) Liquid, which is lightly sprayed on the intaglio before investing.

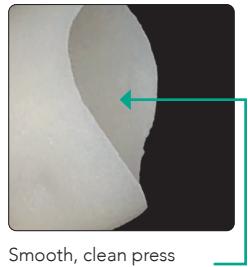


Initial LiSi Press

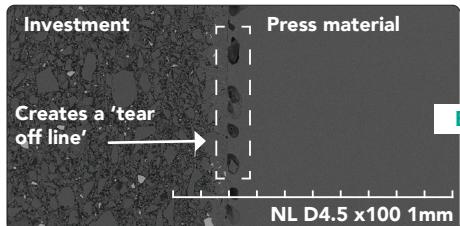
# The Secret of GC LiSi PressVest

Less generation and easier removal of reaction layer

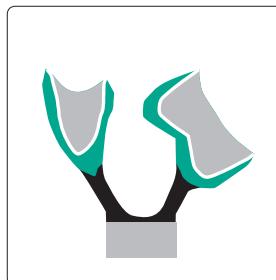
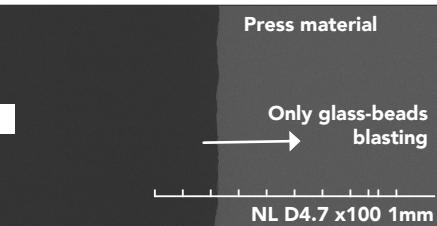
## Initial LiSi Press



Smooth, clean press

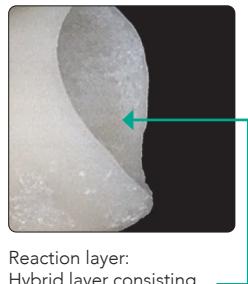


LiSi PressVest SR Liquid is sprayed to the intaglio (inside) of the crown, in which there is generally a stronger reaction layer.

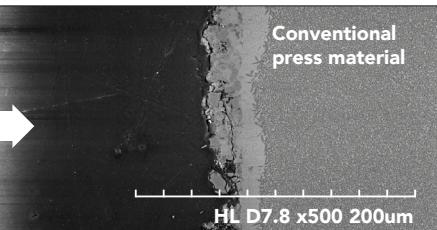
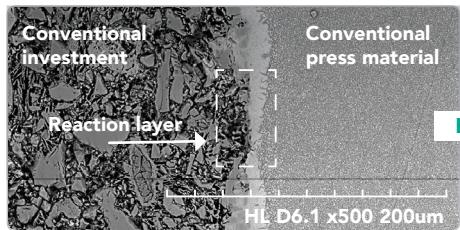


By using a unique release agent in the investment powder and LiSi PressVest SR liquid, a gap or "tear off line" is created, resulting in an easily broken reaction layer.

## Conventional lithium disilicate press ceramic



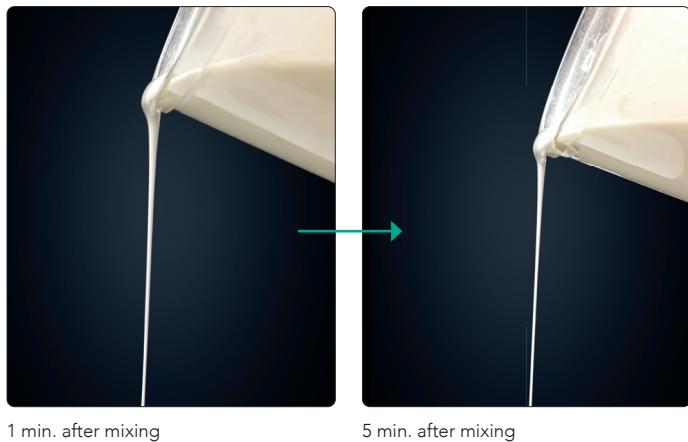
Reaction layer:  
Hybrid layer consisting  
of investment and press  
material



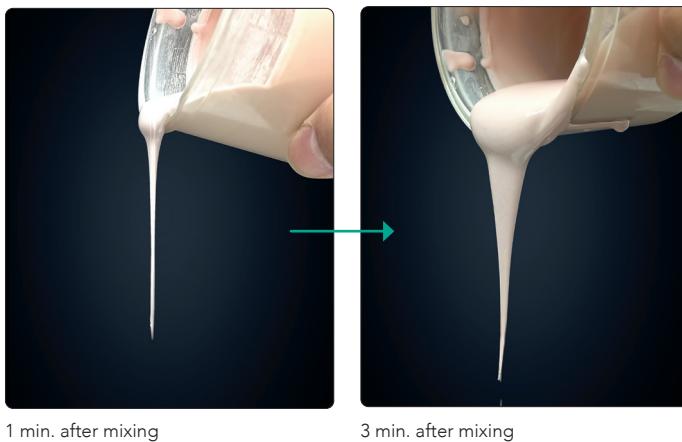


# High fluidity & long working time

GC LiSi PressVest



Conventional lithium disilicate press ceramic



## Time until inserting invested pattern into burn out oven

**20 min. to 180 min.**

Invested pattern can be inserted into oven up to 160 minutes.

**30 min. to 45 min.**

Only 15 minutes is allowed until placing in oven.





Initial LiSi Press

# Time saving

## Initial LiSi Press



Time saved: Between 15-20 minutes.  
No need for hydrofluoric acid.



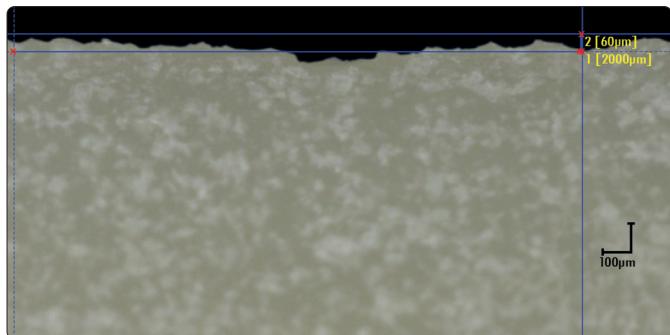
## Conventional lithium disilicate press ceramic system



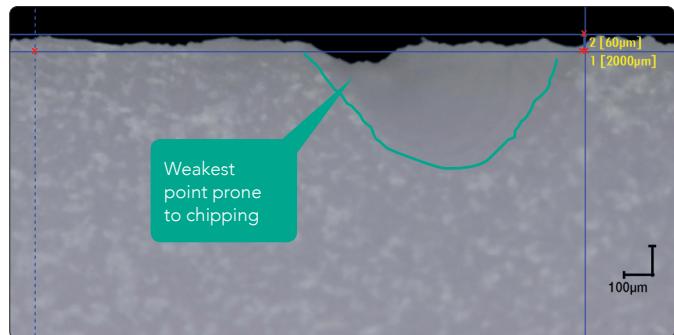


# Unsurpassed marginal integrity

Initial LiSi Press



Conventional lithium disilicate press ceramic



Ideal marginal integrity with Initial LiSi Press



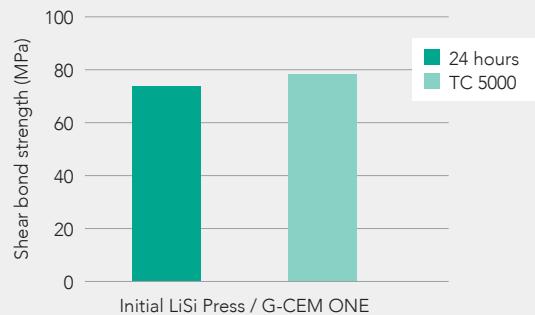
Courtesy CDT. A. Hodges, USA

## Strong & durable bond strengths



Courtesy MDT. S. Maffei, Italy

Bond strength to restoration before and after thermocycling



Source: GC R&D data, Japan, 2021



Initial LiSi Press





# Cases with Initial LiSi, Family of Ceramics



Case by MDT. C. De Gracia, Spain



Case by MDT. J-C Allègre et Dr. Rousselet/Image by Dino Li, France



Case by MDT. S. Maffei, Italy



Case by MDT. P. Llobell, France

Case by MDT. M. Bladen, UK



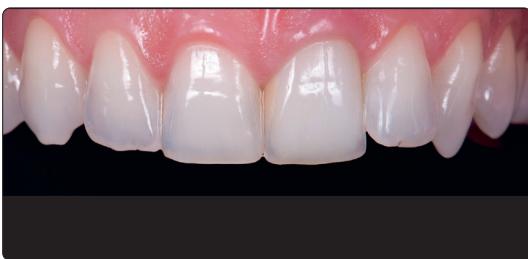
Case by MDT. B. Marais, USA



Case by CDT. C. Fischer, Germany



Case by MDT. O. Yildirim and Dr. S. Tavas, Turkey



Case by MDT. P. Brito, Portugal



Case by MDT. Mirko Picone, Belgium





Initial LiSi Press

# GC Initial LiSi Press packaging



901428	GC Initial LiSi Press, HT-EXW, 3g x 5
10006955	GC Initial LiSi Press, HT-BLE+, 3g x 5
901429	GC Initial LiSi Press, HT-BLE, 3g x 5
901430	GC Initial LiSi Press, HT-E57, 3g x 5
901431	GC Initial LiSi Press, HT-E58, 3g x 5
901432	GC Initial LiSi Press, HT-E59, 3g x 5
901433	GC Initial LiSi Press, HT-E60, 3g x 5



901434	GC Initial LiSi Press, MT-B00, 3g x 5
10006956	GC Initial LiSi Press, MT-B0+, 3g x 5
901435	GC Initial LiSi Press, MT-B0, 3g x 5
901436	GC Initial LiSi Press, MT-A1, 3g x 5
901437	GC Initial LiSi Press, MT-A2, 3g x 5
901438	GC Initial LiSi Press, MT-A3, 3g x 5
10006957	GC Initial LiSi Press, MT-A3.5, 3g x 5
10006958	GC Initial LiSi Press, MT-A4, 3g x 5
901439	GC Initial LiSi Press, MT-B1, 3g x 5
901440	GC Initial LiSi Press, MT-B2, 3g x 5
10006959	GC Initial LiSi Press, MT-B3, 3g x 5
10006960	GC Initial LiSi Press, MT-B4, 3g x 5
901441	GC Initial LiSi Press, MT-C1, 3g x 5
901442	GC Initial LiSi Press, MT-C2, 3g x 5
10006961	GC Initial LiSi Press, MT-C3, 3g x 5
10006962	GC Initial LiSi Press, MT-C4, 3g x 5
901443	GC Initial LiSi Press, MT-D2, 3g x 5
10006963	GC Initial LiSi Press, MT-D3, 3g x 5
10006964	GC Initial LiSi Press, MT-D4, 3g x 5



901541	GC Initial LiSi Press, LT-B00, 3g x 5
901621	GC Initial LiSi Press, LT-B0+, 3g x 5
901542	GC Initial LiSi Press, LT-B0, 3g x 5
901538	GC Initial LiSi Press, LT-A1, 3g x 5
901539	GC Initial LiSi Press, LT-A2, 3g x 5
901540	GC Initial LiSi Press, LT-A3, 3g x 5
901622	GC Initial LiSi Press, LT-A3.5, 3g x 5
901623	GC Initial LiSi Press, LT-A4, 3g x 5
901543	GC Initial LiSi Press, LT-B1, 3g x 5
901544	GC Initial LiSi Press, LT-B2, 3g x 5
901624	GC Initial LiSi Press, LT-B3, 3g x 5
901625	GC Initial LiSi Press, LT-B4, 3g x 5
901545	GC Initial LiSi Press, LT-C1, 3g x 5
901546	GC Initial LiSi Press, LT-C2, 3g x 5
10006951	GC Initial LiSi Press, LT-C3, 3g x 5
10006952	GC Initial LiSi Press, LT-C4, 3g x 5
901547	GC Initial LiSi Press, LT-D2, 3g x 5
10006953	GC Initial LiSi Press, LT-D3, 3g x 5
10006954	GC Initial LiSi Press, LT-D4, 3g x 5



901448	GC Initial LiSi Press, MO-0, 3g x 5
901449	GC Initial LiSi Press, MO-1, 3g x 5
901450	GC Initial LiSi Press, MO-2, 3g x 5





# initial™ LiSi Press



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