

Natural beauty
restored.



initial[™]
LiSi Press

Lithium Disilicate
Redefined

'GC.'



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

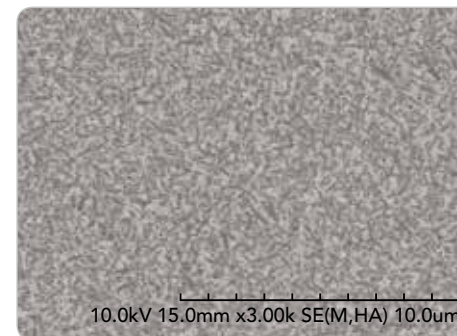
GC Initial™ LiSi Press is the first lithium disilicate ceramic ingot with High Density Micronization (HDM), a technology unique to GC that provides unsurpassed physical properties and the most natural, lifelike aesthetics of any pressed ceramic option on the market today. HDM uses equally dispersed lithium 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)

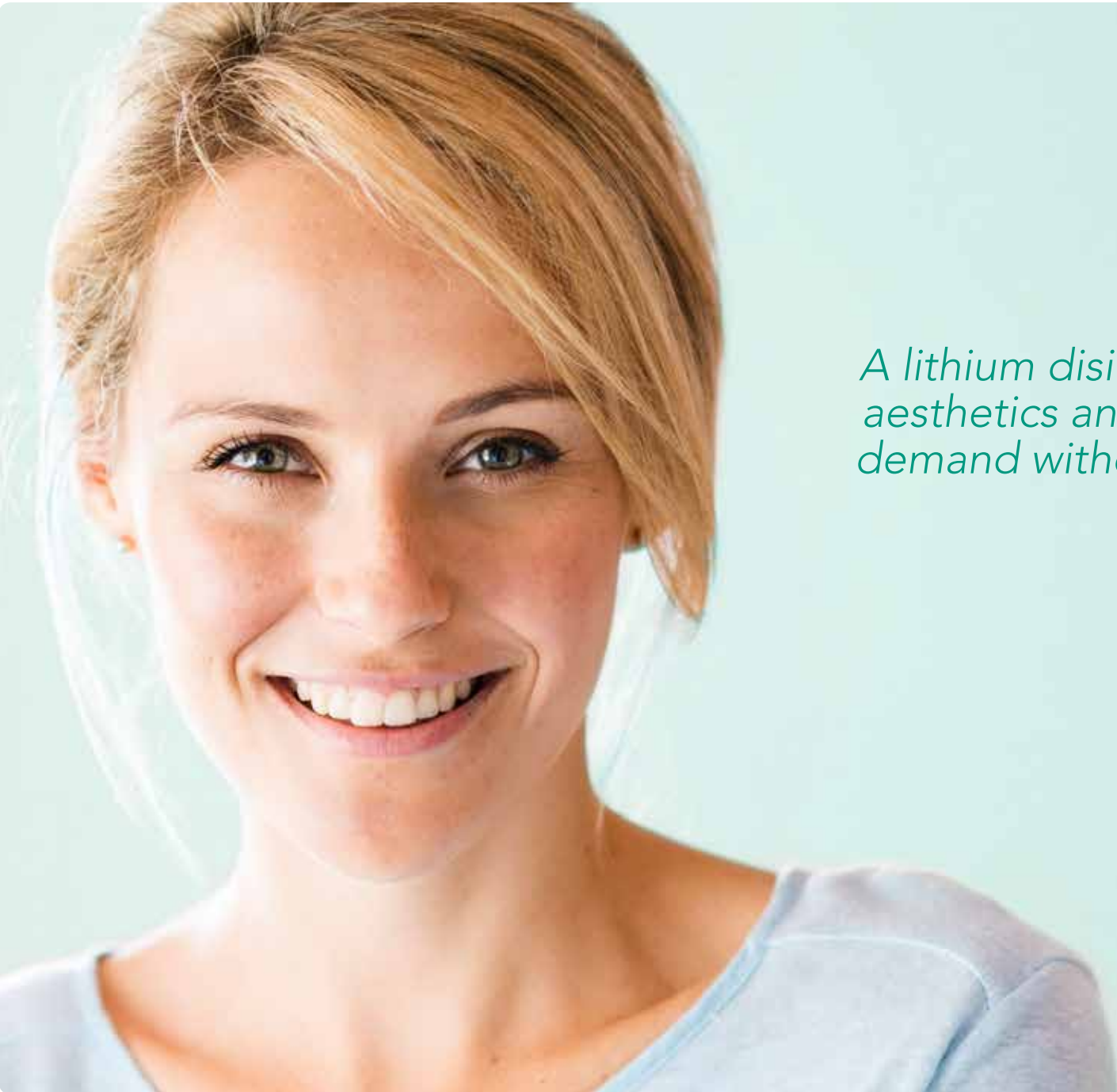


High Density Micronization



HDM - High Density Micronization





Finally!
A lithium disilicate ceramic with the aesthetics and strength technicians demand without being low in value.

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™ Lustre Pastes NF – 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's:

- **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™ Lustre Pastes NF
- **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**

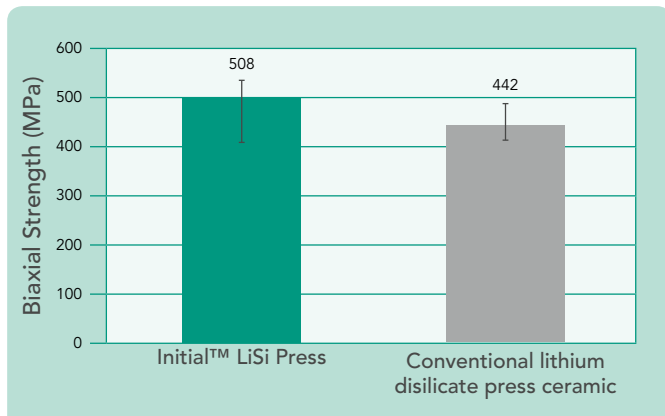




Unsurpassed physical properties

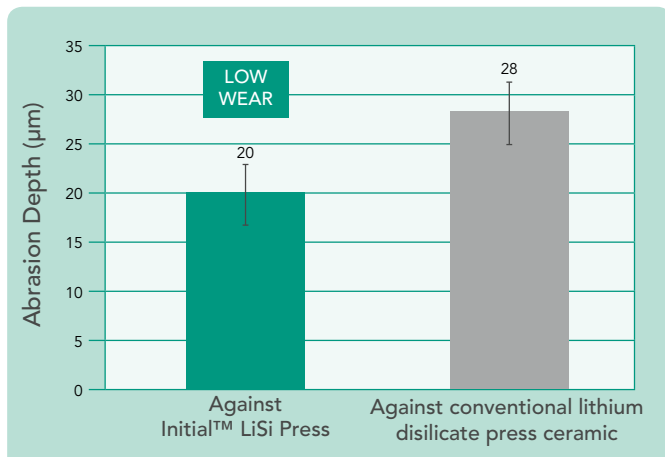
High flexural strength

Biaxial Flexural Strength of Press Ceramics



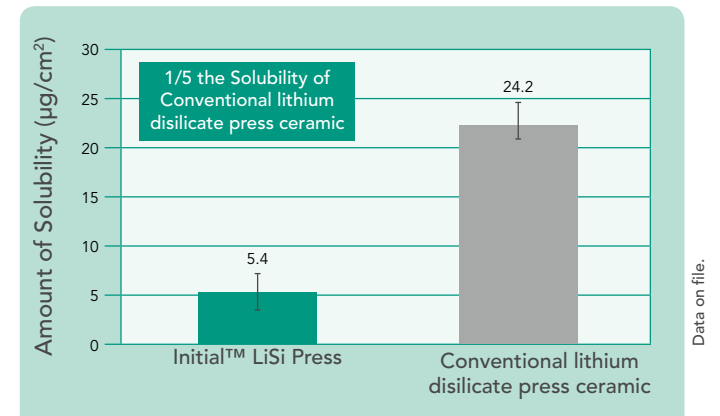
Antagonist friendly

Abrasion Depth of HAp Antagonist after 400,000 Slides



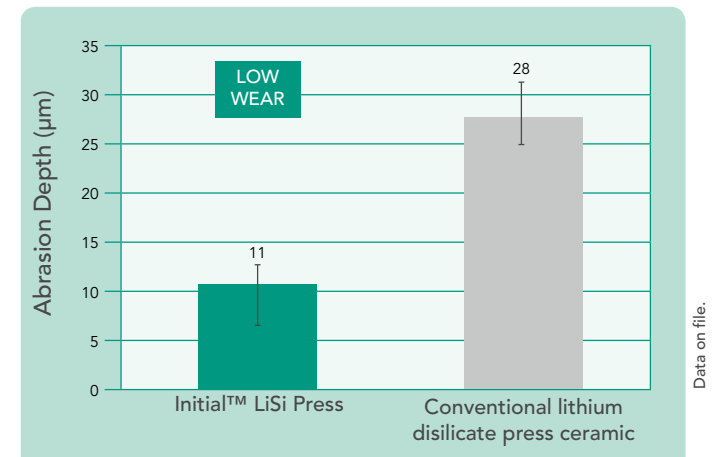
Lower solubility

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



Wear resistant

Abrasion Depth of Material after 400,000 Slides



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

Unparalleled aesthetics

Shade Selection

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

Trans. Level	Bleach	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
HT	HT-EXW HT-BLE	HT-E58		HT-E59		HT-E60	HT-E57	HT-E59			HT-E60	HT-E59		HT-E60	HT-E59		
MT	MT-B00 MT-B0	MT-A1	MT-A2	MT-A3			MT-B1	MT-B2		MT-C1			MT-C2	MT-D2			
LT	LT-B00 LT-B0	LT-A1	LT-A2	LT-A3			LT-B1	LT-B2		LT-C1			LT-C2	LT-D2			
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					

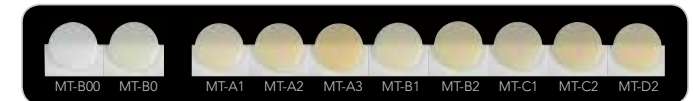


Available in 4 translucencies

High Translucency (HT) – Enamel replacement
Best transparency match to natural tooth enamel, does not look dark (low value) in the mouth.



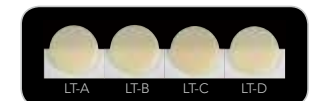
Medium Translucency (MT) – Press & stain
V-Shade line-up with warm colors from the Initial family of ceramic materials.



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.



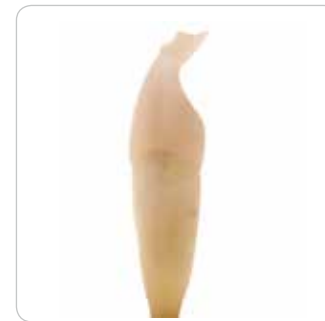
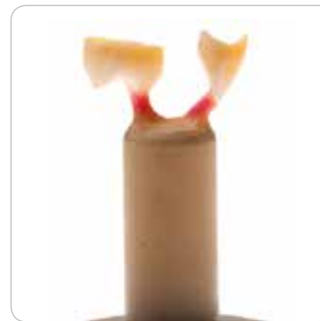
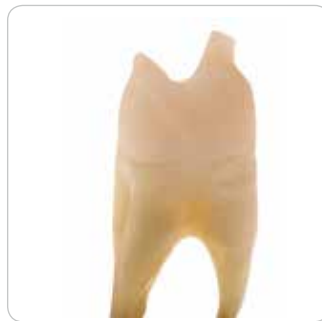
Low Translucency (LT-IQ) – One body concept A, B, C, D or Layer
Compact color line-up following the One Body concept.



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



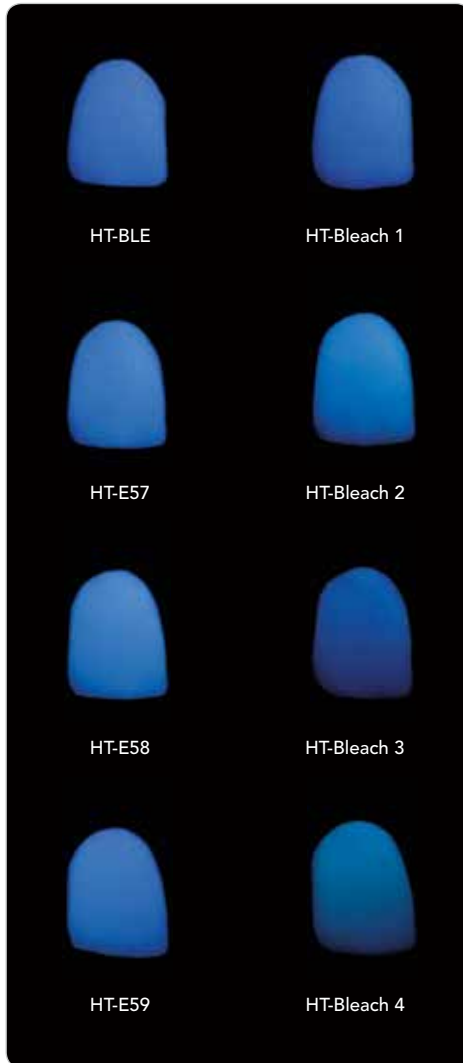
Courtesy MDT. D. Ibraimi, Switzerland

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

Natural light dynamics

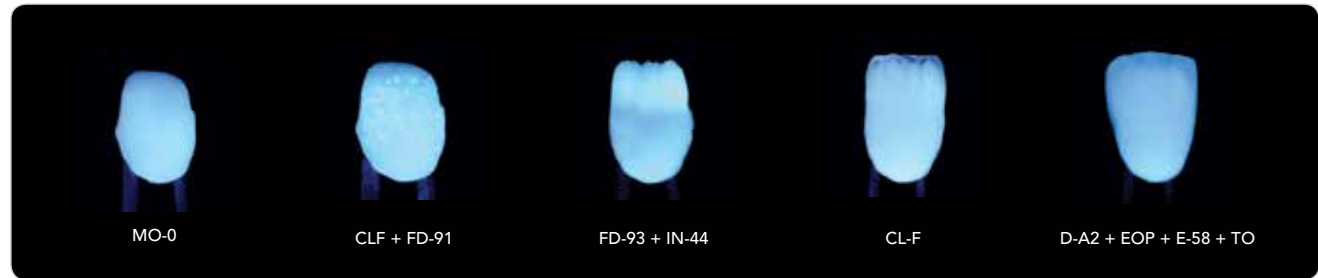
**GC Initial™
LiSi Press**

**Conventional lithium
disilicate press ceramic**



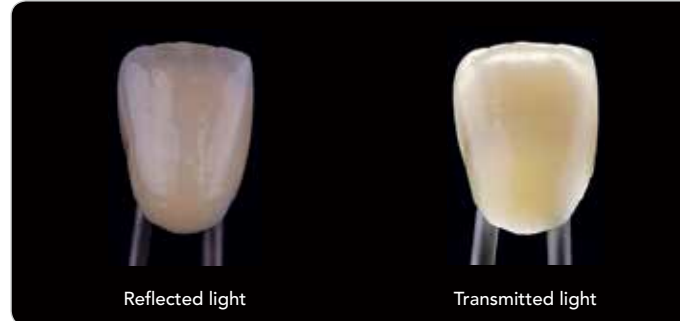
Fluorescence starts from the internal frame

MO-0 layered with GC Initial™ LiSi



Courtesy MDT. S. Maffei, Italy

Natural opalescence



Vibrant & brighter color tones

**GC Initial™
LiSi Press MT-A2**

**Conventional lithium
disilicate press
ceramic MT-A2**



Image with courtesy of MDT. S. Roozen, Austria

Unparalleled aesthetic system approach

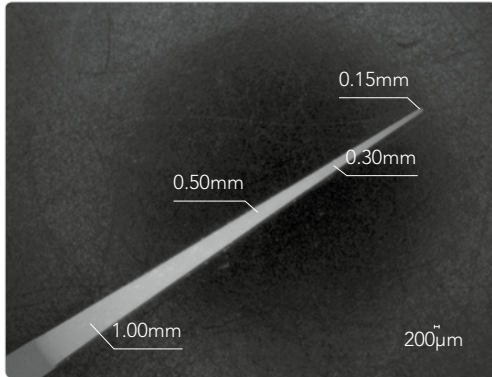
Optimised for use with GC Initial™ LiSi veneering ceramic and GC Initial™ Lustre Pastes NF, adding extra vitality to your pressed crowns!



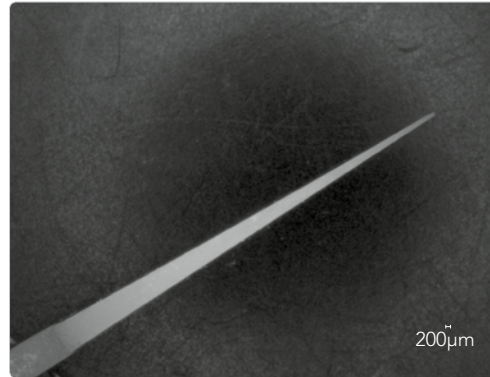
Courtesy MDT. M. Brusch, Germany

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



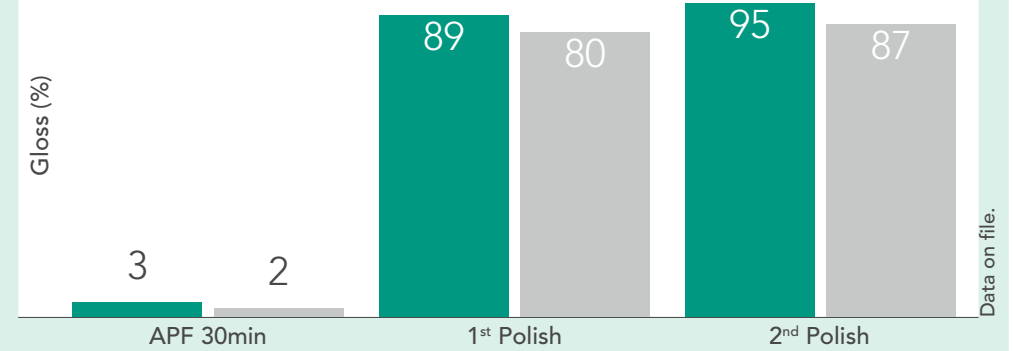
Conventional lithium disilicate press ceramic



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

Superior polishability

Comparison of Gloss after Polishing with Diamond Paste

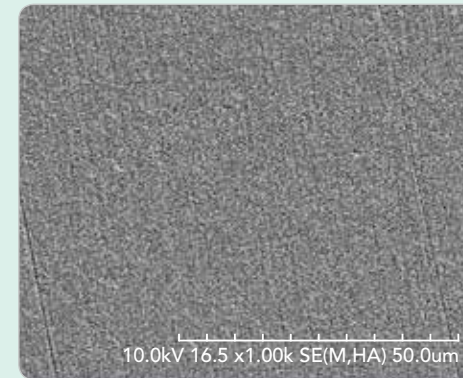


Method:

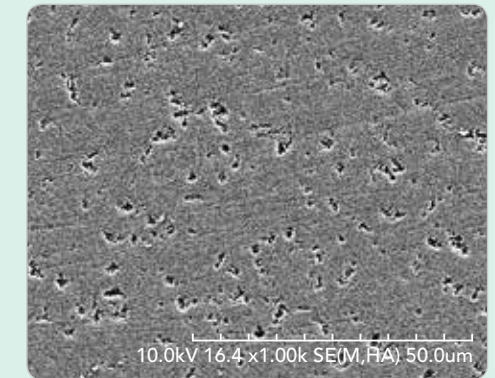
Polishing surface of each product after APF etching by using Robinson[®] Bristle Brush* with Zircon Brite* under the same condition (8,000rpm).

■ Initial LiSi Press
■ Conventional lithium disilicate press ceramic

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!



Courtesy MDT. M. Brüsck, Germany



Initial LiSi Press



Conventional lithium disilicate
press ceramic system

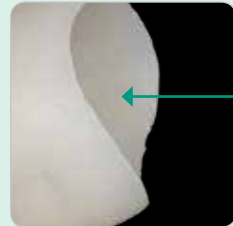
There is only a minimal reaction layer with GC LiSi PressVest, and it is easily removed just with glass beads. There is no need for hazardous hydrofluoric acid or alumina blasting. A key element in reaction layer inhibition is the GC LiSi PressVest SR (Surface Refining) Liquid, which is lightly sprayed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



The Secret of GC LiSi PressVest

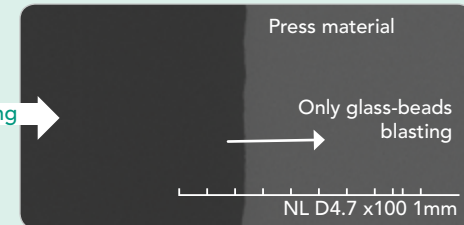
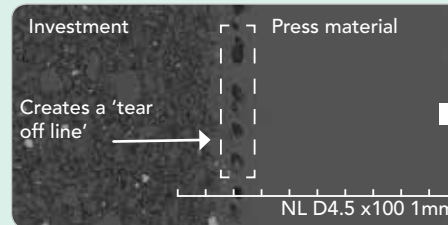
Less generation and easier removal of reaction layer

Initial LiSi Press



Smooth, clean press

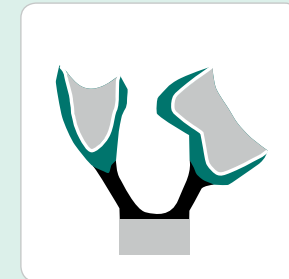
By using a unique release agent in the investment powder and LiSi PressVest SR liquid, a gap or "tear off line" is created, resulting in an easily broken reaction layer.



Blasting



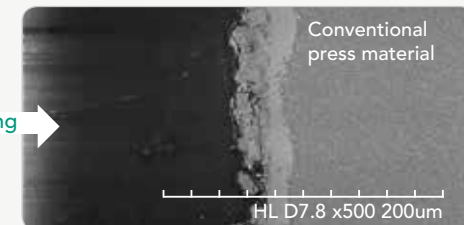
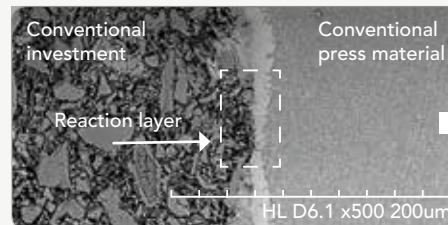
LiSi PressVest SR Liquid is sprayed to the intaglio (inside) of the crown, in which there is generally a stronger reaction layer.



Conventional lithium disilicate press ceramic

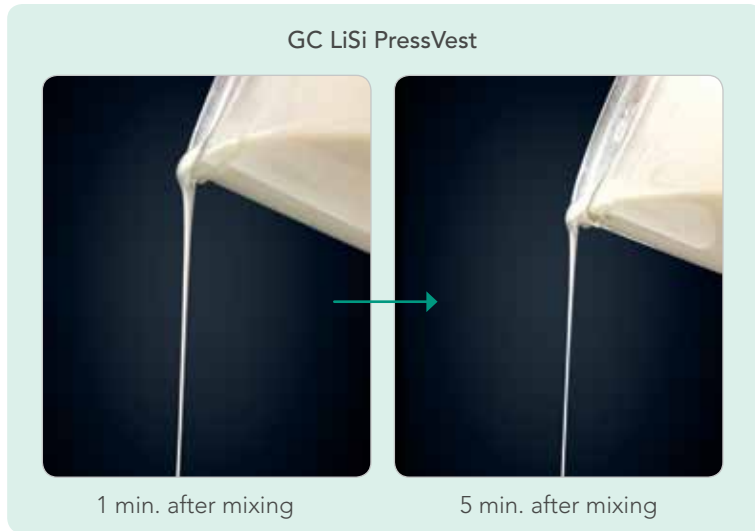


Reaction layer: Hybrid layer consisting of investment and press material



Blasting

High fluidity & long working time



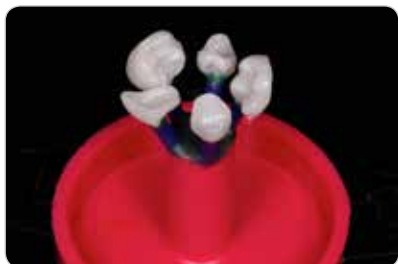
Time until inserting invested pattern into burn out oven

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.



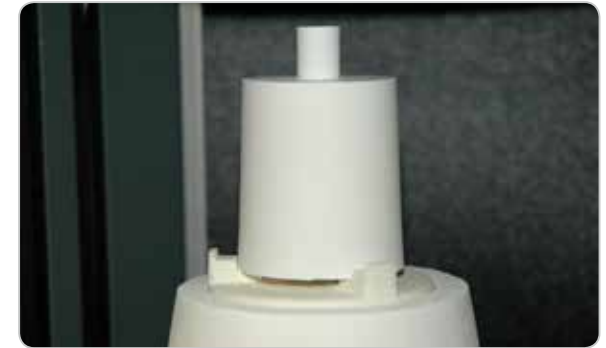
Time saving

Initial LiSi Press



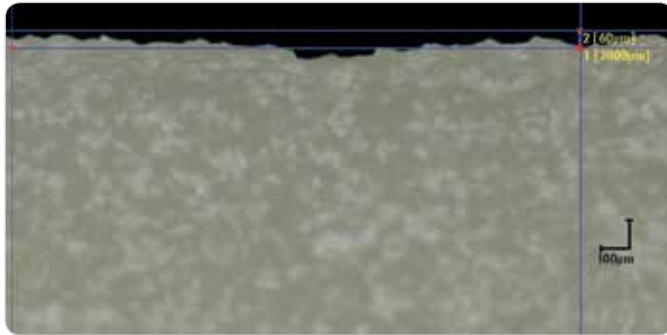
Time saved: Between 15-20 minutes.
No need for hydrofluoric acid.

Conventional lithium disilicate press ceramic system

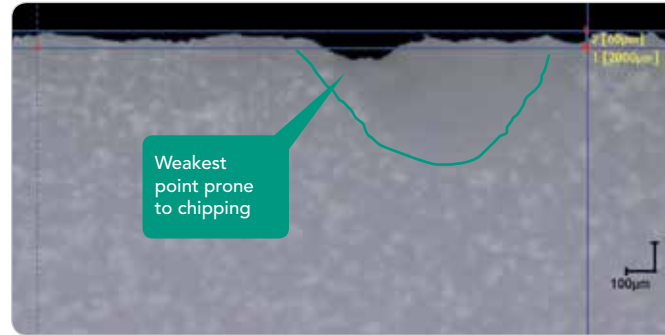


Unsurpassed marginal integrity

Initial LiSi Press



Conventional lithium disilicate press ceramic



Ideal marginal integrity with Initial LiSi Press

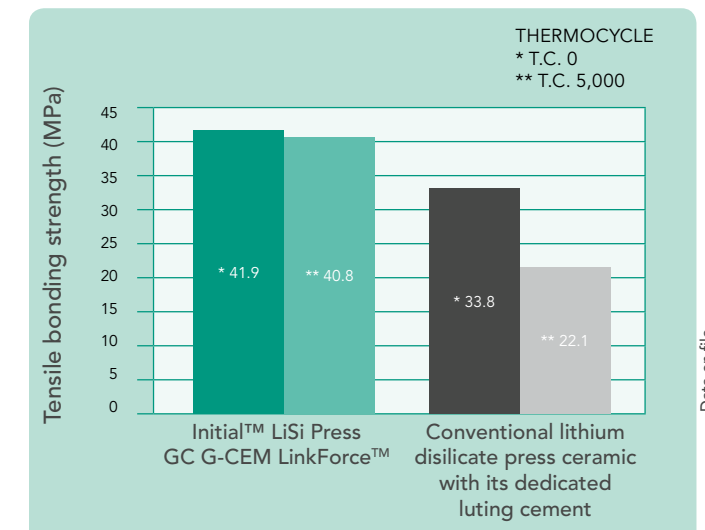


Courtesy CDT. A. Hodges, USA

Strong & durable bond strengths



Courtesy MDT. S. Maffei, Italy





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



GC Initial™ LiSi Press packaging



- 901428 GC Initial™ LiSi Press, HT-EXW, 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
- 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
- 901439 GC Initial™ LiSi Press, MT-B1, 3g x 5
- 901440 GC Initial™ LiSi Press, MT-B2, 3g x 5
- 901441 GC Initial™ LiSi Press, MT-C1, 3g x 5
- 901442 GC Initial™ LiSi Press, MT-C2, 3g x 5
- 901443 GC Initial™ LiSi Press, MT-D2, 3g x 5

- 901444 GC Initial™ LiSi Press, LT-A, 3g x 5
- 901445 GC Initial™ LiSi Press, LT-B, 3g x 5
- 901446 GC Initial™ LiSi Press, LT-C, 3g x 5
- 901447 GC Initial™ LiSi Press, LT-D, 3g x 5
- 901541 GC Initial™ LiSi Press, LT-B00, 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
- 901543 GC Initial™ LiSi Press, LT-B1, 3g x 5
- 901544 GC Initial™ LiSi Press, LT-B2, 3g x 5
- 901545 GC Initial™ LiSi Press, LT-C1, 3g x 5
- 901546 GC Initial™ LiSi Press, LT-C2, 3g x 5
- 901547 GC Initial™ LiSi Press, LT-D2, 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*TM
LiSi Press

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