initial™ LiSi Press

Lithium Disilicate Redefined

Natural beauty restored

Smile for the World

Since 1921

100 years of Quality in Dental

GC Initial™ LiSi Press
The revolutionary pressable ceramic

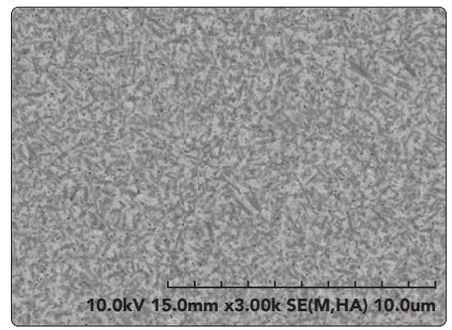
Imagine a pressable ceramic that outperforms all existing products.
Imagine a pressable ceramic that is stronger, more durable,
has better aesthetics and saves you significant lab time.

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 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.

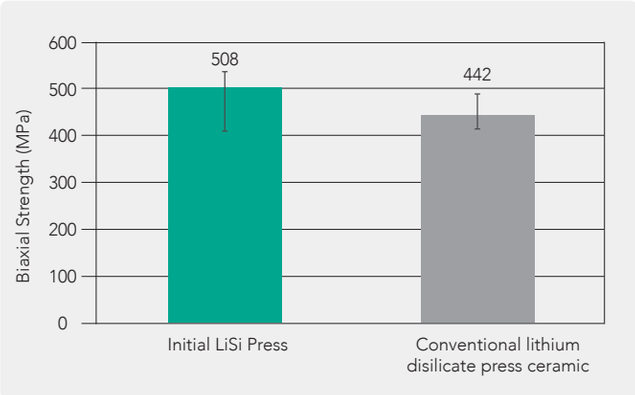
Love GC Initial LiSi Press:

- Unsurpassed flexural strength
- Unparallelled 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

Unsurpassed physical properties

High flexural strength

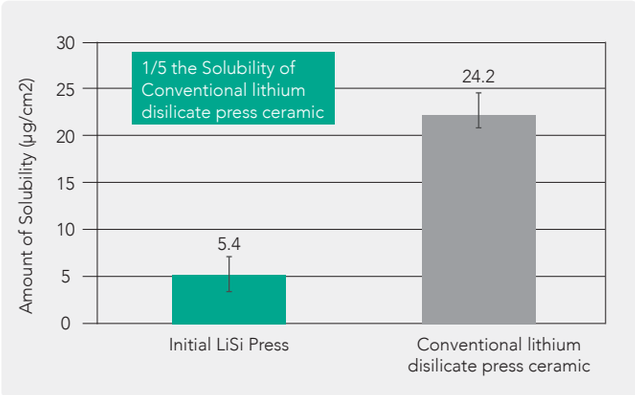
Biaxial Flexural Strength of Press Ceramics



Data on file.

Lower solubility

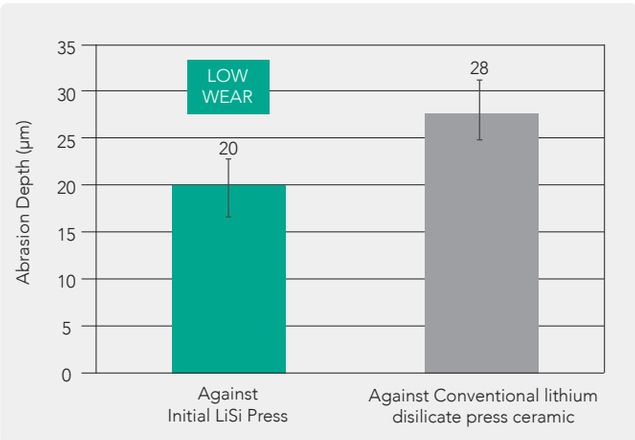
Amount of Solubility for each Sample under 4 vol.% Acetic Acid



Data on file.

Antagonist friendly

Abrasion Depth of HAp Antagonist after 400,000 Slides



Data on file.

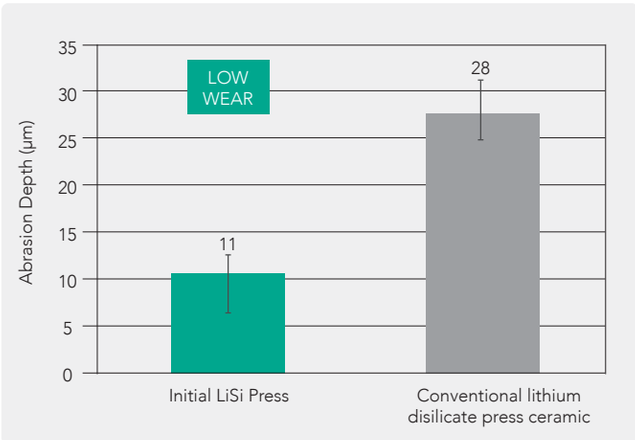
NEXT LEVEL STRENGTH & AESTHETICS

HDM TECHNOLOGY

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

Wear resistant

Abrasion Depth of Material after 400,000 Slides



Data on file.

Unparalleled aesthetics

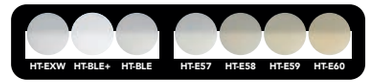
Shade Selection

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

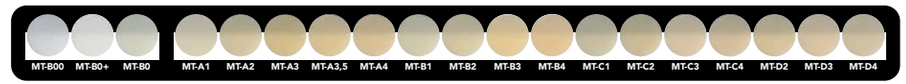
Translucency Level	Bleach			A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
HT	HT-EXW	BLE+	HT-BLE	HT-E58		HT-E59		HT-E60	HT-E57	HT-E59			HT-E60	HT-E59		HT-E60		HT-E59	
MT	MT-B00	B0+	MT-B0	MT-A1	MT-A2	MT-A3	MT-A3.5	MT-A4	MT-B1	MT-B2	MT-B3	MT-B4	MT-C1	MT-C2	MT-C3	MT-C4	MT-D2	MT-D3	MT-D4
LT	LT-B00	B0+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

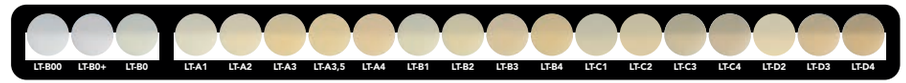
High Translucency (HT) – Enamel replacement
Best transparency match to natural tooth enamel, does not look dark (low value) in the mouth.



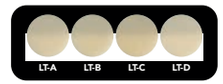
Medium Translucency (MT) – Press & stain
V-Shade line-up with warm colors from the Initial family of ceramic materials.



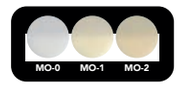
Low Translucency (LT) – Stain or layer
Low translucency ingots, following the V-Shade line-up. Ideal for staining or cut-back layering with GC Initial LiSi.



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

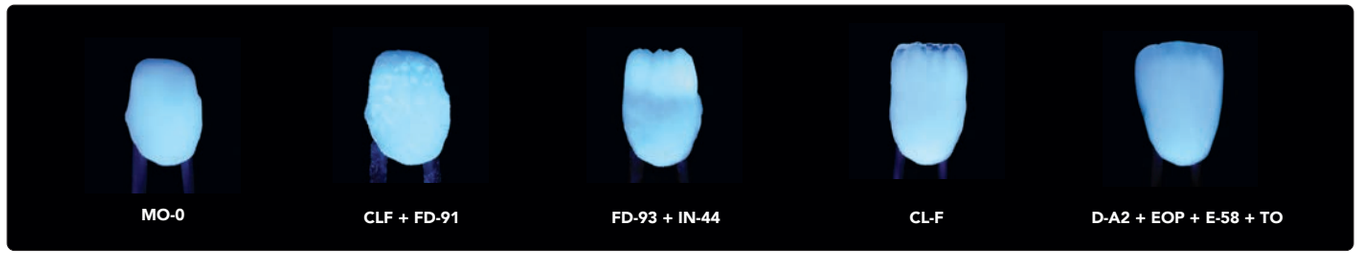
	Processing techniques			Indications				
	Staining Technique	Cut-Back Technique	Layering Technique	Veneers	Inlays	Onlays	Crowns	3-Unit Bridges
HT	•			•	•	•		
MT	•	•		•	•	•	•	•
LT	•	•					•	•
LT-IQ		•	•				•	•
MO			•				•	•

Courtesy MDT. D. Ibraimi, Switzerland

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

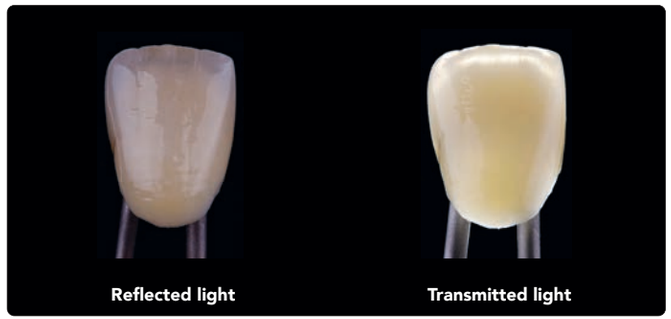


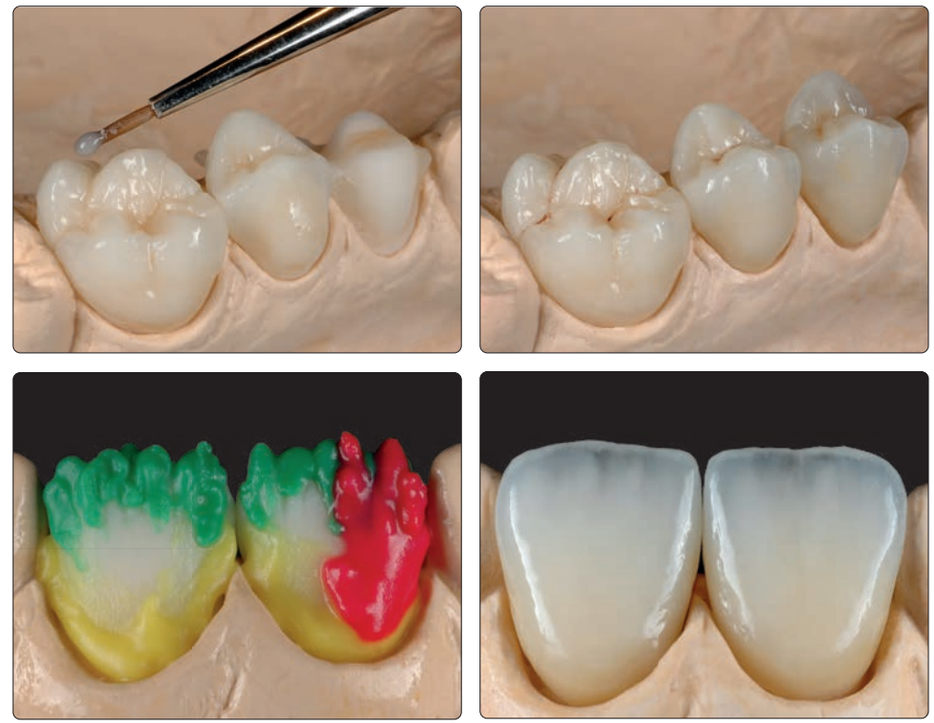
Image with courtesy of MDT. S. Roozen, Austria

Vibrant & brighter color tones

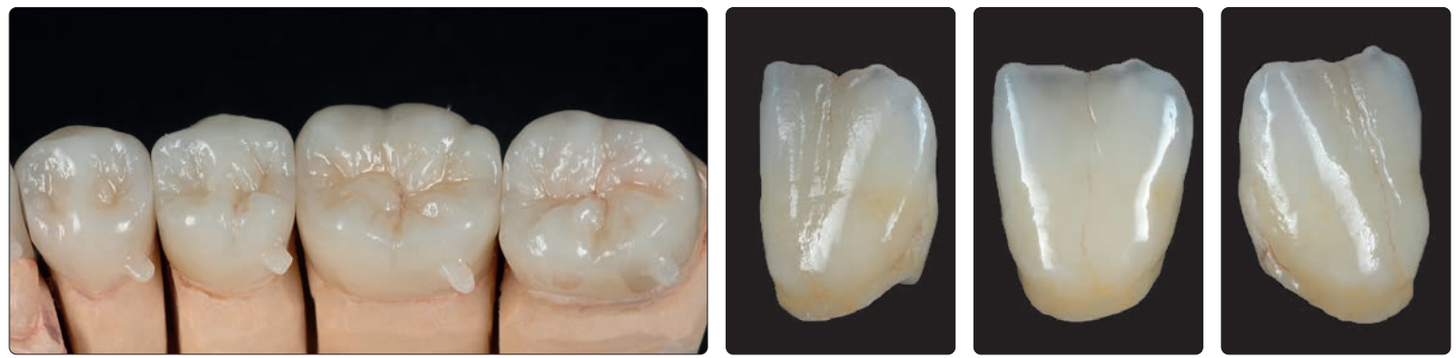
GC Initial LiSi Press MT-A2 Conventional lithium disilicate press ceramic MT-A2

Unparallelled 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!

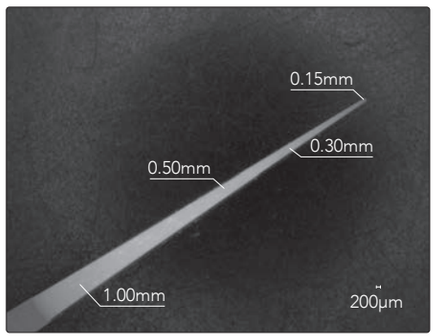


Courtesy MDT. M. Brüsch, Germany

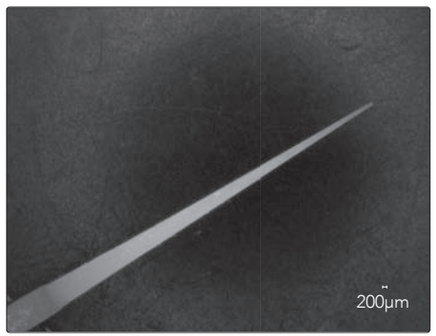


Stability during multiple firings

Initial LiSi Press
Before firing

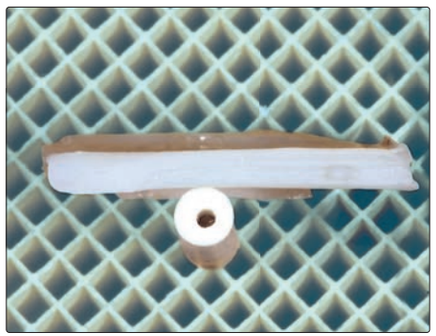


Initial LiSi Press
After firing

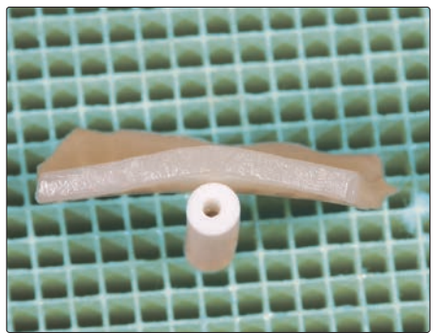


Simulating the margin, specimen with edge was fired repeatedly. No warping or cracking after multiple firings.

Initial LiSi Press

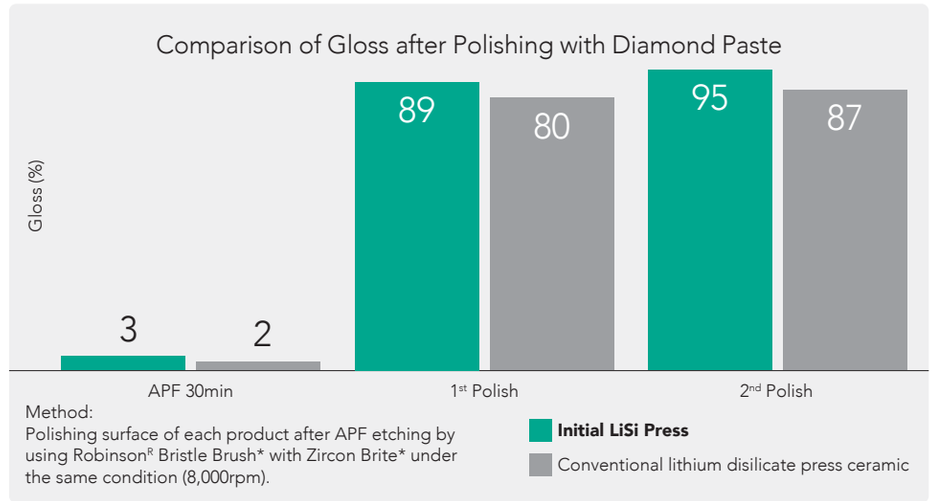


Conventional lithium disilicate press ceramic



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

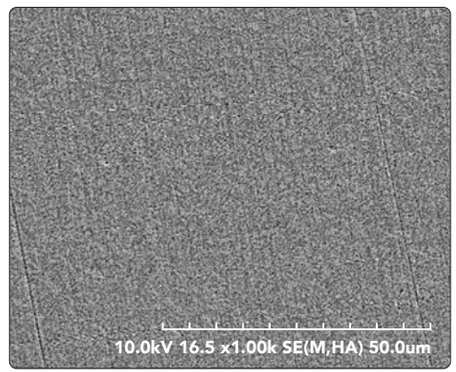
Superior polishability



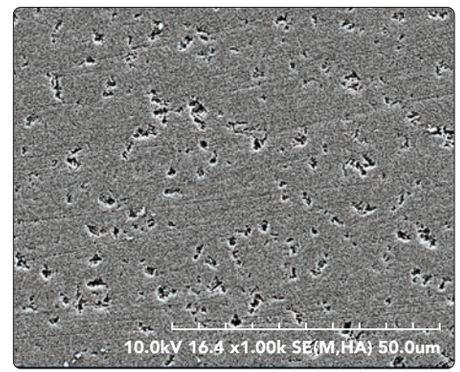
Method:
Polishing surface of each product after APF etching by using Robinson® Bristle Brush* with Zircon Brite* under the same condition (8,000rpm).

Data on file.

Initial LiSi Press
Polished surface (2nd polish)



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

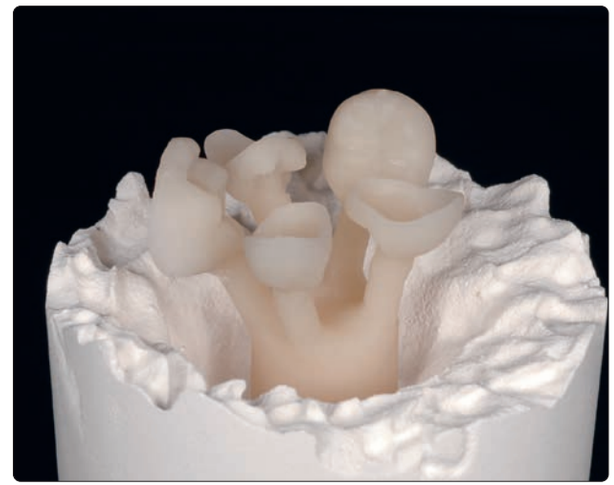


Invest & Press GC LiSi PressVest

Investing made easy!

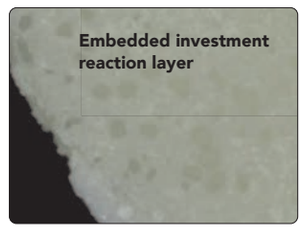
- High fluidity
- Long working time
- Stable setting time
- More flexible time to furnace
- Time savings – great for lab workflows
- Wider sprueing capacity
- Better internal adaptation
- Easy removal of reaction layer
  – no hydrofluoric acid

It's simply easier to use!



Courtesy MDT. M. Brüsch, Germany

Initial LiSi Press



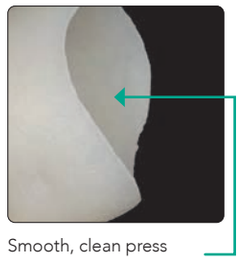
Conventional lithium disilicate
press ceramic system

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.

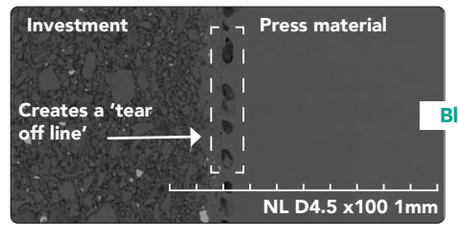
The Secret of GC LiSi PressVest

Less generation and easier removal of reaction layer

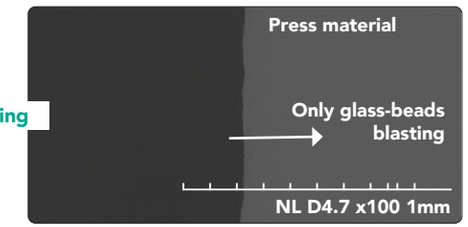
Initial LiSi Press



Smooth, clean press

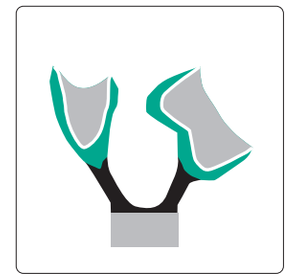


Blasting

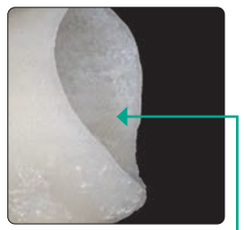


By using a unique release agent in the investment powder and LiSi PressVest SR liquid, a gap or "tear off line"is created, resulting in an easily broken reaction layer.

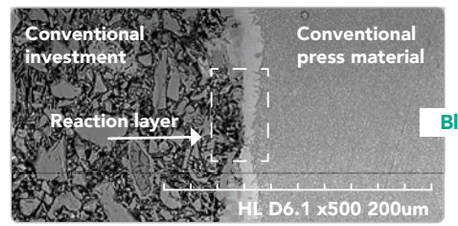
LiSi PressVest SR Liquid is sprayed to the intaglio (inside) of the crown, in which there is generally a stronger reaction layer.



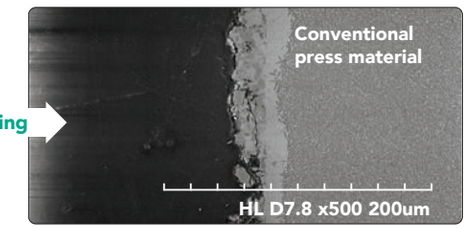
Conventional lithium disilicate press ceramic



Reaction layer:
Hybrid layer consisting of investment and press material

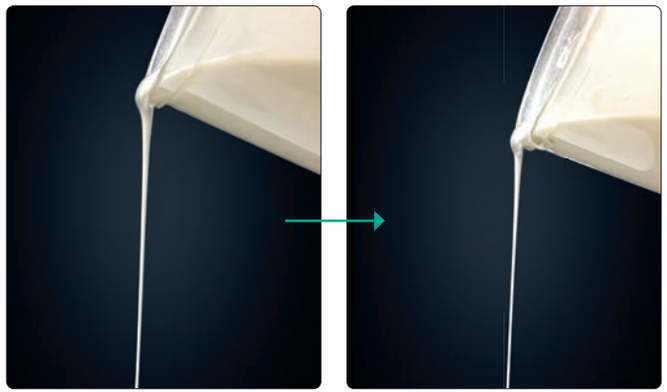


Blasting



High fluidity & long working time

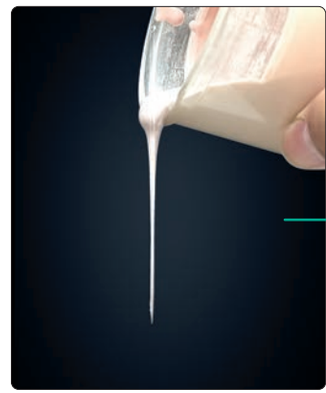
GC LiSi PressVest



1 min. after mixing

5 min. after mixing

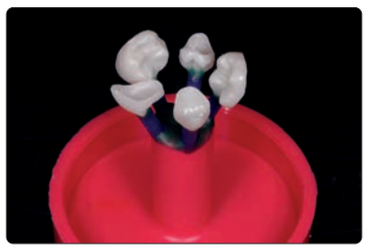
Conventional lithium disilicate press ceramic

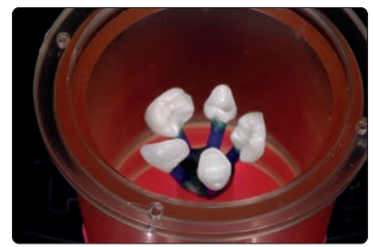


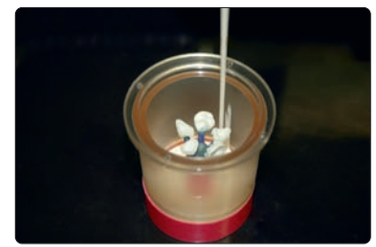
1 min. after mixing

3 min. after mixing

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

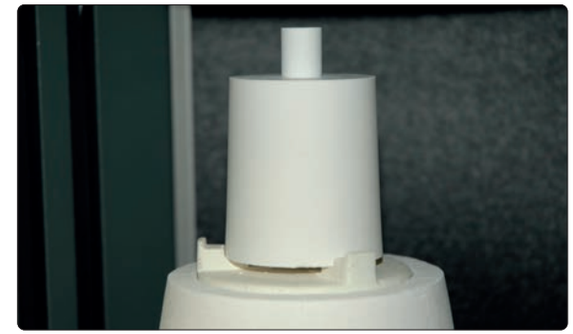
Initial LiSi Press

Pressing → Divesting → Glass beads blasting → Finishing

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

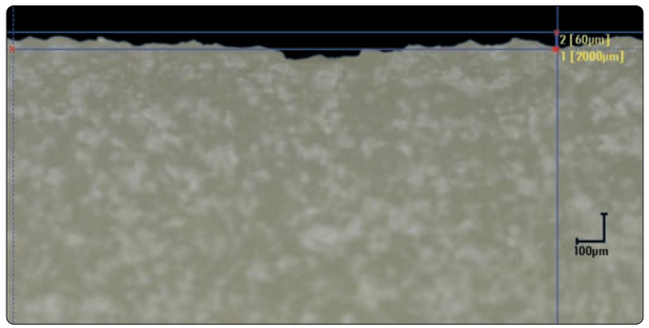
Conventional lithium disilicate press ceramic system

Pressing → Divesting → Glass beads blasting → Hydrofluoric acid → Alumina blasting → Finishing

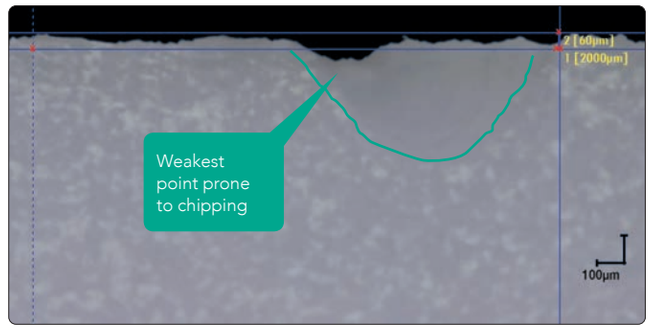


Unsurpassed marginal integrity

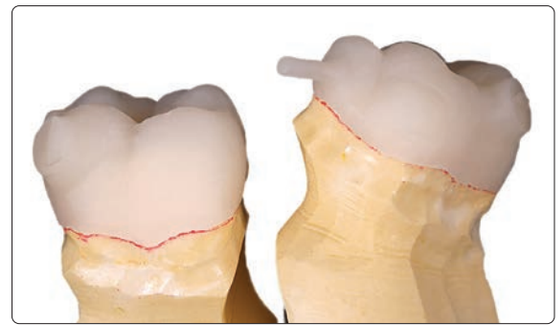
Initial LiSi Press



Conventional lithium disilicate press ceramic



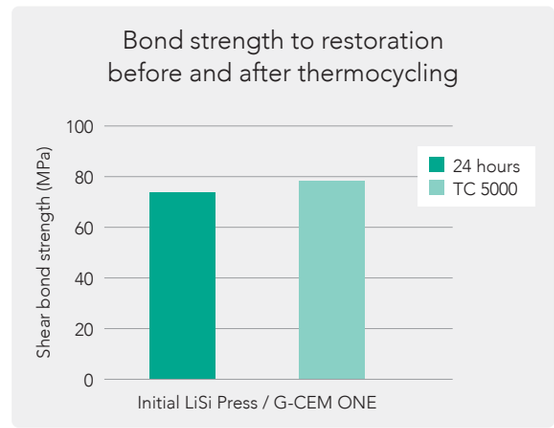
Ideal marginal integrity with Initial LiSi Press



Courtesy CDT. A. Hodges, USA

Strong & durable bond strengths

Courtesy MDT. S. Maffei, Italy



Source: GC R&D data, Japan, 2021

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

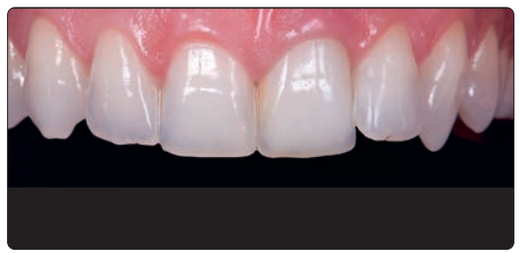
Case by MDT. P. Llobell, France

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
952289	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
952290	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
952291	GC Initial LiSi Press, MT-A3.5,	3g x 5
952292	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
952293	GC Initial LiSi Press, MT-B3,	3g x 5
952294	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
952295	GC Initial LiSi Press, MT-C3,	3g x 5
952296	GC Initial LiSi Press, MT-C4,	3g x 5
901443	GC Initial LiSi Press, MT-D2,	3g x 5
952297	GC Initial LiSi Press, MT-D3,	3g x 5
952298	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
952285	GC Initial LiSi Press, LT-C3,	3g x 5
952286	GC Initial LiSi Press, LT-C4,	3g x 5
901547	GC Initial LiSi Press, LT-D2,	3g x 5
952287	GC Initial LiSi Press, LT-D3,	3g x 5
952288	GC Initial LiSi Press, LT-D4,	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

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

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

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