

The all-round ceramic system for every indication

Metal Ceramics

GC Initial MC • GC Initial LF • GC Initial Ti

The GC Initial system consists of one line of six specialised ceramics with which you can create metal-ceramic and full-ceramic restorations for every indication using any fabrication process and framework. For more information on the complete GC Initial system please request our brochure.

Whether your dental laboratory works with classic metal-based standard alloys, high-gold alloys and/or galvano veneers or even wants to fire on titanium alloys, with GC Initial MC, GC Initial LF and GC Initial Ti there is a metal ceramic to suit your needs.





GC Initial MC is a metal ceramic specifically adapted for all conventional alloy types within a CTE range of 13.8 to $14.9 \times 10^{\circ}$ K⁻¹ (25-500°C), irrespective of whether they contain silver, have a reduced gold content or are palladium-based, as well as veneering NPA and galvano crowns.

- Feldspath ceramic with a firing temperature below 900°C
- Specifically matched coefficients of thermal expansion
- Excellent physical and optical properties
- Extremely low shrinkage properties
- Harmonised shades for superb colour matching and natural life-like aesthetics
- Suitable for the sintering technology in combination with GC Initial MC/LF Connector Paste

GC Initial LF is a low-fusing ceramic specifically adapted for ceramic-metal alloys within a CTE range of 13.8 to $14.9 \times 10^{\circ}$ K (25-500°C), NPA, high- and reduced-content gold alloys, and galvano or palladium-based alloys (with a silver content < 20 %). It is also ideal for correcting restorations made with GC Initial MC or as a build up material on GC Initial PC copings.

- Synthetic ceramic with a firing temperature of 770°C
- Excellent low-shrinkage properties
- Reduced number of hard leucite crystals
- Very stable, even after repeated firings
- Superb polishability
- Superior aesthetics for both metal-ceramic and full ceramic restorations
- Exactly cross-matched coefficient of thermal expansion



GC Initial Ti is a specifically adapted ceramic for titanium frameworks. It is ideal for creating restorations that are biocompatible and highly aesthetic where full ceramic cannot be applied.

- Exactly cross-matched coefficient of thermal expansion and optimal bonding
- Firing temperature of 780°C
- Harmonised shades for superb colour matching and natural life-like aesthetics

Technical Specifications:

Property	GC Initial MC	GC Initial LF	GC Initial Ti
Dentin firing (°C)	890	770	780
CTE (25-500°C; 10 ⁻⁶ K ⁻¹	2nd/4th) firing 13.1/13.3	2nd/4th firing 11.6/11.8	2nd/4th firing 8.6/8.6
Glass transition temperature (°C)	575	510	575
Solubility (µg/cm ²)	25	15	11
Density (g/cm ²)	2.52	2.48	2.45
Flexural strength (MPa)	84	80	70
Bonding strength (MPa)	50	50	N/a
Mean particle size (µm; D 50%)	25	21.2	22.2

GC Initial MC, GC Initial LF and GC Initial Ti follow EN ISO 9693:2000 (The stated technical/physical values refer to the results of internal tests.)

www.gcinitial.gceurope.com



A MODULAR SYSTEM

GC Initial is available as modular ceramic sets. Each set contains different components, by adding them together, you can create increasingly aesthetic restorations.

MODULE 1 Basic Set

Contains all the fundamental opaque ceramics, shade ceramics and liquids. Designed for basic, standard build-up and to meet the 'standard' requirements of the Vitapan* Classical shade guide.



GC Initial MC Basic Set Powder Opaque GC Initial MC Basic Set Paste Opaque GC Initial LF Basic Set GC Initial Ti Basic Set

MODULE 2 Basic Plus Set

Contains additional shades and accessories such as Opaque Modifiers, Opaqus Dentin and shoulder ceramics. Add to the Basic Set to lift your restorations to a higher aesthetic level.



GC Initial MC Basic Plus Set Powder Opaque GC Initial MC Basic Plus Set Paste Opaque GC Initial LF Basic Plus Set GC Initial Ti Basic Plus Set

MODULE 3 Advanced Set

Completes the GC Initial system by adding the remaining shades and accessories to either the Basic or Basic Plus Set, so enabling restorations with the most advanced aesthetics.



GC Initial MC Advanced Set GC Initial LF Advanced Set GC Initial Ti Advanced Set

Standard Set (GC Initial MC only)





GC Initial MC Standard Set Paste Opaque (6 colour set) GC Initial MC Standard Set Powder Opaque (6 colour set)

GC Initial INvivo/INsitu

GC Initial INvivo/INsitu

Effect materials for internal - external use

Effect materials for internal - external use

for MC, LF, PC

for AL, Zr, Ti



ACCESSORIES FOR OPTIMAL RESULTS

GC Initial IN-Metalbond acts as a buffer between GC Initial metal ceramics and dental alloys to block escaping metal oxides. It can be used on all precious and non-precious PFM alloys.



- Ready to use paste and easy to use
- Improves and secures the chemical bond on various types of alloys
- Allows a wider span of CTE compatibility
- Compatible with GC Initial MC and GC Initial LF

GC Initial MC/LF Connector Paste can be used to seal refractory die materials for ceramic sintering.



- Ready to use red coloured paste for optimal application on refractory models before firing
- Perfect match with GC Initial MC and GC Initial LF

GC Initial Ti Bonder ensures a strong bond between titanium frame structures and GC Initial Ti ceramic.



- Easy to apply and short working steps
- Suitable for all titanium metals whether pure or alloyed, cast or milled Perfect match between
- GC Initial Ti Bonder and GC Initial Ti ceramic

AVAILABLE SEPARATELY

Entrance Kit

Consists of small amounts of the key ceramics, shade ceramics and liquids to test on a limited number of restorations.



GC Initial MC Entrance Kit Powder Opaque (1 colour A3 set) GC Initial MC Entrance Kit Paste Opaque (1 colour A3 set) **GC Initial LF Entrance Kit GC Initial Ti Entrance Kit**

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