Create your world with

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 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:

<table>
<thead>
<tr>
<th>Property</th>
<th>GC Initial MC</th>
<th>GC Initial LF</th>
<th>GC Initial Ti</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dentin firing (°C)</td>
<td>890</td>
<td>770</td>
<td>780</td>
</tr>
<tr>
<td>CTE (25-500°C; 10⁻⁶ K⁻¹) firing</td>
<td>13.1/13.3</td>
<td>11.6/11.8</td>
<td>8.6/8.6</td>
</tr>
<tr>
<td>Glass transition temperature (°C)</td>
<td>575</td>
<td>575</td>
<td>575</td>
</tr>
<tr>
<td>Solubility (µg/cm²)</td>
<td>25</td>
<td>15</td>
<td>11</td>
</tr>
<tr>
<td>Density (g/cm³)</td>
<td>2.52</td>
<td>2.48</td>
<td>2.45</td>
</tr>
<tr>
<td>Flexural strength (MPa)</td>
<td>84</td>
<td>80</td>
<td>70</td>
</tr>
<tr>
<td>Bonding strength (MPa)</td>
<td>50</td>
<td>50</td>
<td>N/a</td>
</tr>
<tr>
<td>Mean particle size (µm; D 50%)</td>
<td>25</td>
<td>21.2</td>
<td>22.2</td>
</tr>
</tbody>
</table>

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.)
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
- 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

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)
  - Paste Opaque (1 colour A3 set)
  - GC Initial LF Entrance Kit
  - GC Initial Ti Entrance Kit

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)

ACCESSORIES FOR OPTIMAL RESULTS

GC Initial IN/Metabin 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

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