



Create your world with **Initial** from **GC**.

The all-round ceramic system for every indication

Full Ceramics

GC Initial AL • GC Initial Zr-FS



initial

<http://initial.gceurope.com>

The GC Initial System is a line of six specialised ceramics that can be used to 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.

Full ceramic restorations are becoming more and more common in restorative dentistry. With GC Initial AL and GC Initial Zr-FS, the GC Initial system allows you to fabricate every type of conventional full ceramic and hybrid restoration reliably and true-to-colour using aluminium oxide or zirconium oxide frameworks.



GC



Full Ceramics: GC Initial AL • GC Initial Zr-FS

GC Initial AL

is specifically adapted for strong bonding to material aluminium oxide frameworks with good adhesion, and excellent retention and colour properties.

- Exactly cross-matched coefficients of thermal expansion
- Very good wettability and optimal thermal stability
- Firing temperature of 910°C
- Excellent adhesion and high biocompatibility
- Exact shade-matching with framework materials offering natural aesthetics

GC Initial Zr-FS

is improved feldspar based zirconium oxide veneering ceramic for use with high strength zirconium frameworks. The unequalled natural optical effects and increased stability after multiple firings, makes it ideal for the fabrication of complex and delicate substructures such as bridges.

- High content of extremely pure special selected feldspar
- Superior aesthetics on all types of high tensile strength zirconium frameworks
- Firing temperature of 810°C and short cooling times
- Very good wettability, high stability and smooth surfaces
- Superior natural aesthetics on high tensile strength Zr-frameworks



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 AL, Zr-FS

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.

Module 2: Advanced Set AL, Zr-FS

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

Entrance Kit (1 colour set A3) AL, Zr-FS

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

GC Initial INvivo/INsitu AL, Zr-FS, Ti

Effect materials for internal-external use

Technical Specifications:

| Property | GC Initial AL | GC Initial Zr-FS |
|--|---------------------------|---------------------------|
| Dentin firing (°C) | 910 | 810 |
| CTE (25-500°C; 10 ⁻⁶ ×K ⁻¹) | 2nd/4th firing 6.9/6.9 | 2nd/4th firing 9.4/9.4 |
| Glass transition temperature (°C) | 600 | 550 |
| Solubility (µg/cm ²) | 11 | 12 |
| Density (µg/cm ³) | 2.41 | 2.43 |
| Flexural strength (Mpa) | 90 | 90 |
| Mean particle size (µm; D 50%) | 24.2 | 21.5 |

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

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