

Quick Start Guide

initial IQ ONE SQIN



Thank you for choosing our GC Initial IQ ONE SQIN concept.

GC Initial IQ ONE SQIN is a paintable color and form ceramic concept for the aesthetic realization of monolithic or minimal buccally reduced dental frameworks made of zirconia or lithium disilicate.

Full monolithic frameworks



Design of the framework

The monolithic framework type can be realized in zirconia or lithium disilicate following the instructions of the respective manufacturer. Color management of the framework is an important factor in achieving the desired aesthetical result. Choose the ideal base color and translucency level that fits best to your restoration.

Buccally reduced monolithic frameworks



Design of the framework

The monolithic framework type must be designed for micro-layering of the buccal area. You can achieve lifelike color deepness and natural translucent effects already from a buccal space of approx. 0.2 mm to 0.6 mm.

The framework can be realized in zirconia or lithium disilicate following the instructions of the respective manufacturer.

Color management of the framework is an important factor in achieving the desired aesthetical result. Choose the ideal base color and translucency level that fits best to your restoration.



Preparation of the framework

The framework is shaped and contoured using dedicated instruments. After pre-polishing with a dedicated ceramic polisher, the finished framework as well as the surfaces which require ceramic application are softly sandblasted with 50 microns Alu-Oxid at max. 1,5 bar pressure.



Aesthetic realization of monolithic frameworks using Initial IQ Lustre Pastes ONE



	START TEMP.	DRYING TIME	VACUUM	HEAT RATE	FIRING TEMP	HOLDING TIME
Lithium disilicate	450°C	4 min	Yes	45°C/min	735°-760°C*	1 min
Zirconia	450°C	6 min	Yes	45°C/min	800°-900°C	1 min

*Firing temperatures for LiSi Block 730°-750°C



Note:

The Lustre Pastes ONE are fired with vacuum.

The above mentioned firing parameters are only guidelines and therefore always need to be adjusted to the firing furnace and its correct functionality.

Most important is to obtain the right firing result. These firing parameters can only be used as guidelines.

Aesthetic realization of buccally reduced dental frameworks



Step 1 - Individualization & connection firing using GC Initial IQ Lustre Pastes ONE

	START TEMP.	DRYING TIME	VACUUM	HEAT RATE	FIRING TEMP	HOLDING TIME
Lithium disilicate	450°C	4 min	Yes	45°C/min	760°C*	1 min
Zirconia	450°C	6 min	Yes	45°C/min	850°C	1 min

*Firing temperatures for LiSi Block 740°-750°C



Note:

The Lustre Pastes ONE are fired with vacuum. When required, Spectrum Stains can be used and fired at the same time. Indicated temperatures assure an optimal connection firing. After firing, it is advised to slightly sandblast with 50µm Aluminiumoxid and low pressure to obtain a slight roughened surface before application of SQIN (step 2).

Aesthetic realization of buccally reduced dental frameworks

Step 2 - Form & texture using GC Initial IQ SQIN

	START TEMP.	DRYING TIME - 8 min		VACUUM	HEAT RATE	FIRING TEMP.	HOLDING TIME
		Pre-drying time	Closing time				
Lithium disilicate	400°C	4 min	4 min	Yes	40°C/min	740-780°C*	1 min
Zirconia	400°C	4 min	4 min	Yes	40°C/min	750-800°C	1 min

*Firing temperatures for LiSi Block 750°C-760°C



Note:

Drying process is minimum 4 minutes. Closing of firing chamber is 4 minutes.

For thicker layers an equal prolonging of drying time shall be applied. After firing, a Self-Glaze effect (gloss) is noticeable. The intensity of the surface texture and gloss is guided by the temperature. An extra Initial IQ SQIN firing can be done lowering the firing temperature with 10°C. An extra glaze firing and further individualization with LP ONE and/or Spectrum Stains & Glaze is possible using the same firing schedule as your last SQIN firing. When required, a manual gloss polishing can be performed. The above mentioned firing parameters are only guidelines and therefore always need to be adjusted to the firing furnace and its correct functionality. Most important is to obtain the right firing result. These firing parameters can only be used as guidelines.

Facilities of GC Initial IQ ONE SQIN



Micro-layering with IQ ONE SQIN

Painting with Lustre Pastes ONE

MDT Andreas Pilch, Hetjens Dental-Labor, Germany



MDT Michael Brüsich, Germany



DT Carsten Fischer, Germany



DT Carsten Fischer, Germany



MDT Andreas Pilch, Hetjens Dental-Labor, Germany



MDT Patric Freudenthal, Sweden

Initial IQ ONE SQIN paintable colour & form ceramic system



Individualization & connection firing using GC Initial IQ Lustre Pastes ONE & NF Gum

Use Lustre Pastes ONE in the teeth area for natural light dynamics and fluorescence. Lustre Pastes NF Gum are applied in the in the gingival area for pink aesthetics. The outcome should reflect the final aesthetic expectation regarding color tone and individual effect. This individualization & connection firing can be performed in multiple firings when required.



Form & texture using GC Initial IQ SQIN

GC Initial IQ Lustre Pastes ONE are used as a colour and individualization layer assuring a perfect connection firing before application of the SQIN powders. The vestibular tooth shapes are completed using IQ SQIN. The SQIN material allows an optimal forming of the desired tooth shape with texture integration.



Final result

A very nice aesthetic outcome with a natural gloss and optimal form & texture is achieved in only one firing. Thanks to the auto-glaze effect there is no further need for an extra glaze firing. Optional: The application of IQ SQIN can be performed in multiple firings when required. If a more intensive external individualization is required, both Initial IQ Lustre Pastes ONE / NF GUM or Initial Spectrum Stains & Glaze can be used.



ONE SQIN technique - for all your zirconia and lithium disilicate restorations

- ✓ Create form and fine texture details in the wet stage - No changes after firing.
- ✓ Self-glazing properties - Get a beautiful glazed finish in one single firing.
- ✓ Optimal fluorescence level - Ensures the look of natural teeth under all light circumstances.
- ✓ Maximal aesthetics within a micro-layer.



For more tips and tricks please consult the Initial IQ ONE SQIN Technical Manual.

Technical manual



Product page



Step-by-step images with courtesy of MDT Stefan M. Roozen and DT Carsten Fischer.

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