

# Quick guide for n!ce® restorations

Prepare the tooth, digitize and design the desired restoration as usual.

## POLISH ONLY

Mill the restoration with the n!ce® dedicated program<sup>1</sup> of your CAD/CAM system. Smooth out the attachment point with standard grinding tools for lithium-disilicate glass-ceramic<sup>2</sup>.

Try-in the restoration, check and adjust the contact points if required.

Simply polish with a standard polishing set for lithium-disilicate glass-ceramic (or use a polishing paste with a brush wheel) to achieve a natural high gloss finish<sup>3</sup>.

Clean the n!ce® restoration in an ultrasonic water bath or with a steam jet.

Condition the n!ce® restoration (etch the bonding surface with 5% hydrofluoric acid gel for 20 seconds; and silanize the bonding surface).

Clean and condition the prepared tooth and seat the n!ce® milled restoration with adhesive<sup>4</sup> cement system for lithium-disilicate glass-ceramic.

## n!ce® restoration guidelines

n!ce® is indicated for single tooth restorations and is intended to restore natural teeth or to be placed on top of abutments.

- The preparation must not have angles or sharp edges
- The shoulder preparation must have rounded inner edges and/or chamfer
- The static and dynamic antagonist contacts should be taken into consideration and the preparation margin should not be located on the centric antagonist contacts

## STAIN&GLAZE

### MILL

1

Mill the restoration with the n!ce® dedicated program<sup>1</sup> of your CAD/CAM system. Smooth out the attachment point with standard grinding tools for lithium-disilicate glass-ceramic<sup>2</sup>.

Try-in the restoration, check and adjust the contact points if required.

### POLISH

2

### STAIN&GLAZE

Clean the n!ce® restoration in an ultrasonic water bath or with a steam jet. Stain&glaze by applying individual stains for more characterization followed by glaze. Place the n!ce® restoration in the center of the firing tray on a firing cotton or use a firing pin with an auxiliary firing paste. Fire as recommended (see recommended heating profile).

### SEAT

3

Condition the n!ce® restoration (etch the bonding surface with 5% hydrofluoric acid gel for 20 seconds; and silanize the bonding surface).

Clean and condition the prepared tooth and seat the n!ce® milled restoration with adhesive<sup>4</sup> cement system for lithium-disilicate glass-ceramic.



n!ce® minimum restoration thickness guidelines

# n!ce® firing process

## After stain & glaze

n!ce® can be stained and glazed if additional characterization is required.

### Please ensure the following:

- Only use stain and glaze material compatible with a CTE value of  $7.1 \times 10^{-6} \text{ K}^{-1}$
- Only fire once the n!ce® restoration has been cleaned in water by ultrasound, or with steam



We recommend the following firing process (no vacuum required):

Start temperature	Heating time (closing time)	Heating rate (Temp. raise)	End temp. (Firing temp.)	Holding time	Cooling temp.	Cooling rate
°C	mm:ss	°C/min	°C	mm:ss	°C	°C/min
400	02:00	60	770–800	01:00	400	25

- The firing temperature must not exceed 820°C.
- Utilizing a slow cooling rate is important to avoid color deviations caused by the cool down process.
- Utilizing a fast cooling rate increases the translucency of the material.

# n!ce® sterilization parameters

n!ce® restorations can be sterilized under following parameters:

Method	Condition	Time
Autoclave, moist heat, Fractionated vacuum	132 °C (270 °F)	4 minutes; 30 minute dry time
Autoclave, moist heat, Gravity displacement	132 °C (270 °F)	15 minutes; 30 minute dry time

From milling to n!ce smiles  
In just a few steps.

### Note:

- Observe the n!ce® minimum thicknesses guidelines
- Do not blast the restoration with Al<sub>2</sub>O<sub>3</sub> or glass polishing beads
- In Canada, n!ce glass ceramic blocks are indicated for full contour crowns in the anterior region as well veneers, inlays and onlays in the anterior and posterior region.

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### REFERENCES

1 n!ce® can also be milled with the lithium-disilicate milling program 2 Ideally use water-cooled instruments, grind only at low speed and slight pressure to prevent delamination and chipping at the edges 3 For polishing the occlusal surfaces, use preferably diamond polishing tools for lithium-disilicate glass-ceramic 4 Crowns can also be seated using self-adhesive cement