## Comparison of essential processing steps for glass ceramics

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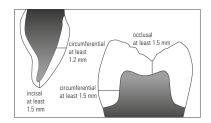
#### **VITA SUPRINITY® PC**

circumferential
1.2 mm

circumincisal ferential
1.5 mm

For more information, see VITA SUPRINITY PC Working Instructions No. 1951 at www.vita-zahnfabrik.com

#### IPS e.max® CAD



For more information, see IPS e.max CAD Instructions for use at www.ivoclarvivadent.com

**2.** Finishing the crown

Design Minimum wall thickness



Whenever possible, adjustments of VITA SUPRINITY PC restorations should always be performed in the partially crystallized condition. Use only suitable milling tools, low speed and little pressure to avoid overheating in some areas.

If possible, carry out grinding adjustments of IPS e.max CAD restorations while they are still in their precrystallized (blue) state. For finishing and adjusting IPS e.max CAD, only use suitable grinding instruments. If unsuitable grinding instruments are used, chipping of the edges and local overheating may occur (observe the Ivoclar Vivadent Flow Chart «Recommended grinding tools for IPS e.max glass ceramics»).

3. Checking the fit



Check the fit on the die using visual control; adjust the fit if required.



Check the fit by seating the crown on the die.

4. Cleaning the crown

Use steam jet and/or ultrasonic bath to remove grinding particles and any contamination from occlusion paper.

Avoid localized heat during cleaning with steam.

Do not sandblast with  $Al_2O_3$  or abrasive beads.

Always clean the restoration with ultrasound in a water bath or blast with the steam jet before crystallization. Do not blast with  ${\rm Al_2O_3}$  or glass polishing beads.

**5.** Firing trays



VITA FIRING PASTE has to surround the pin.



Place crown on platinum pin and put on the honeycomb tray. If the crown is loose: Use small quantity of VITA Firing Paste to fix the crown on the platinum pin.

Ceramic pin: Avoid any contact with the crown!



select the largest possible IPS e.max CAD Crystallization Pin, use a plastic spatula to smooth the Object Fix material after placing the pin, clean off any possible contamination with a brush dampened with water and then place it on the IPS e.max CAD Crystallization Tray.

Firing table Crystallization

#### VITA SUPRINITY® PC

#### **VITA VACUMAT**

Predry.	—— min.	min.	°C/min.	T °C	min.	VAC min.	°C*
400	4.00	7.49	55	830	8.00	8.00	600

<sup>\*</sup> The firing chamber must not be opened during long-term cooling.

#### **Programat Ivoclar Vivadent**

B [°C]	S [min.]	t [°C/min.]	T [°C]	H [min.]	Vac. 1 [°C]/ Vac. 2 [°C]	L [°C]	tL*
400	4.00	55	830	8.00	410 / 829	600	0

<sup>\*</sup> The firing chamber must not be opened during long-term cooling.

#### IPS e.max® CAD crystallization LT, MT, HT

Firing units Programat	Stand-by temperature <b>B</b> [°C]	Closing time <b>S [min]</b>		Firing temperature <b>T<sub>1</sub> [°C]</b>	Holding time <b>H<sub>1</sub> [min]</b>	Heating rate t <sub>2</sub> [°C/min]	Firing temperature <b>T<sub>2</sub> [°C]</b>	Holding time <b>H<sub>2</sub> [min]</b>	Vacuum 1 1, [°C] 1, [°C]	Vacuum 2 2 <sub>1</sub> [°C] 2 <sub>2</sub> [°C]		Cooling rate t <sub>i</sub> [°C/min]
P300 P500 P700	403	6:00	90	820	0:10	30	840	7:00	550/820	820/840	700	0
P310 P510 P710	403	6:00	90	830	0:10	30	850	7:00	550/830	830/850	710	0
CS/CS2/CS3/CS4	Program 1											

### Combination firing: Glaze firing and crystallization firing in one step

#### VITA SUPRINITY PC

VITA AKZENT Plus glaze materials and stains available as powder, paste or spray.

Note: Avoid exposing the firing objects to drafts; long-term cooling may be required.

Extend preheating time ( \_\_\_ min.) by 2 min when using VITA AKZENT Plus Paste.

#### IPS e.max° CAD

IPS e.max CAD Crystall./Glaze Spray IPS e.max CAD Crystall./Shades IPS e.max CAD Crystall./Stains IPS e.max CAD Crystall./Glaze Paste

# Stains/glaze firing after crystallization

VITA AKZENT Plus GLAZE LT VITA AKZENT Plus Stains

Note: Avoid exposing the firing objects to drafts; long-term cooling may be required.

Extend preheating time ( \_\_\_ min.) by 2 min when using VITA AKZENT Plus Paste.

IPS e.max CAD Crystall./Shades
IPS e.max CAD Crystall./Stains

IPS e.max CAD Crystall./Glaze Paste

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IPS Ivocolor Essence

IPS Ivocolor Shades

IPS Ivocolor Glaze Paste/FLUO, Glaze Powder/FLUO

Information provided in VITA SUPRINITY PC Working Instructions, No. 1951, from version V08

Information provided in the Instructions for Use IPS e.max CAD Monolithic Solution Labsite, Version 2015-10, Rev. 1 IPS e.max® CAD is a registered trademark of Ivoclar Vivadent AG, FL-Schaan

VITA Zahnfabrik has been certified and the following products bear the mark VITA SUPRINITY® PC

Rx only



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