



core3d
centres®



IPS e.max® CAD

Lithium disilicate glass-ceramic (LS2)

Core3dcentres® are an authorised partner for IPS e.max® CAD. Core3dcentres lithium disilicate glassceramic (LS2) restorations are milled by industrial 5-axis HSC milling machines making our restoration the most precise available today. IPS e.max CAD is used for the efficient fabrication of high-aesthetic and high-strength monolithic single-tooth restorations. Due to the optimum milling properties, IPS e.max CAD is processed in a “soft”, intermediate state, in which the material shows its typical, striking bluish colour. IPS e.max CAD acquires its final strength of 360 MPa and the desired aesthetic characteristics, such as tooth colour, translucency and brightness, during a simple and quick crystallisation process at 840°C - 850°C.

Indications:

- Anterior and posterior single crowns
- Inlays
- Onlays
- Veneers
- Implant superstructures for single-tooth restorations

Advantages:

- Economic efficiency, aesthetics and high final strength
- Crystallisation and glaze firing in one step
- Unique blue LS2 glass-ceramic with a final strength of 360 MPa for monolithic restorations
- Maximum flexibility due to three translucency levels (MO, LT, HT)
- Wide range of shades (MO: five group shades, LT + HT: 16 A-D, 4 Bleach BL shades)
- Various cementation options for crowns (adhesive, self-adhesive, conventional)

IPS e.max® CAD

Lithium disilicate glass-ceramic (LS2)

For the laboratory

What to send:

To receive a IPS e.max CAD restoration from Core3dcentres®, the laboratory will be required to send either a digitally designed file from an open or affiliated scanner software with reference to the shade required and any special requirements or a upper and lower model with bite registration and clear instructions of what has to be manufactured. Core3dcentres can advise you on the best scanners currently available and the required parameters for IPS e.max CAD by Core3dcentres. IPS e.max CAD restorations are available in three translucency levels. The choice of the translucency level is based on the patient case at hand as well as the desired processing technique (layering, cut-back, staining technique). The more opaque MO (= Medium Opacity) blocks are used for the layering technique and are supplied in five group shades; the more translucent LT (= Low Translucency) and HT (= High Translucency) blocks for the cut-back / staining technique are supplied in 16 A-D and 4 Bleach BL shades. Discover the IPS e.max Shade Selection Wheel for the appropriate translucency and shade at www.ivoclarvivadent.com/e.max-shade-selection.

What you get back:

IPS e.max CAD is provided by Core3dcentres to our customers in an intermediate state, in which the material shows its typical, striking bluish colour. In this state you can easily adjust proximal contacts and smooth out the surface if needed. This will normally be returned to the laboratory between 24 and 72 hours depending on the service request.

What you need to do to complete:

Technicians can achieve many varied results with IPS e.max CAD depending on the technique they choose:

- Staining Technique
- Cut-back Technique
- Layering Technique

Therefore, please read the IPS e.max CAD Instructions for use. Coordinated IPS e.max materials are available for successfully finishing off the “blue” IPS e.max CAD restorations that come from Core3dcentres.

IPS e.max CAD Crystallisation Kit:

The crystallisation kit contains IPS e.max CAD Crystal/Shades, Stains, Glaze and further accessories that enable you to complete

these restorations in your laboratory. The restorations are characterised and glazed in the blue state and subsequently crystallised in the ceramic furnace. As a result, the “blue” restorations are quickly and efficiently transformed into aesthetic, high-strength (360 MPa) monolithic tooth coloured restorations. If you are an IPS e.max Ceram customer and work with IPS e.max Ceram Shades and Essence, you can crystallise the restoration first and then use the IPS e.max Ceram pastes and powders for characterisation and glazing. The IPS e.max CAD Crystallisation Tray and IPS Object Fix are the only additional components required.



For more detailed information please contact us at www.core3dcentres.com or discover on www.ivoclarvivadent.com.

For the clinician

How to prepare the tooth for a IPS e.max CAD restoration:

Successful results can only be achieved with IPS e.max CAD if the guidelines and framework thicknesses are strictly observed.

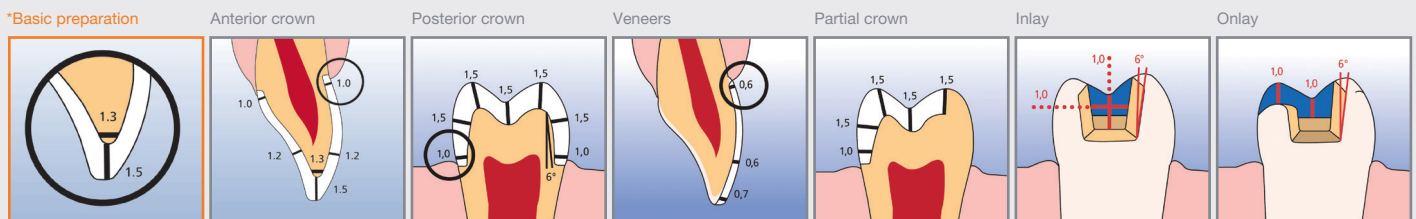
*Basic preparation guidelines for all-ceramic restorations:

- No sharp edges
- Shoulder preparation with rounded inner edges and/or chamfer preparation
- The indicated dimensions reflect the minimum thickness for IPS e.max CAD restorations
- The incisal edge of the preparation, particularly for anterior teeth, should be at least 1.3mm in order to permit optimum milling during CAD/CAM processing

How to cement IPS e.max CAD restorations:

Aesthetic cementation options are crucial for the harmonic shade effect of all-ceramic restorations. Depending on the indication, IPS e.max CAD restorations may be placed using the adhesive, self-adhesive or the conventional cementation technique.

- Adhesive cementation for: inlays, onlays, veneers and crowns
- Self-adhesive for: anterior and posterior crowns
- Conventional cementation for: anterior and posterior crowns



Asia Pacific Benelux Canada Germany Japan Scandinavia South Europe Switzerland United Kingdom USA