

IPS e.max[®] CAD

| High-strength lithium disilicate (LS₂) glass-ceramic for all single-tooth restorations |

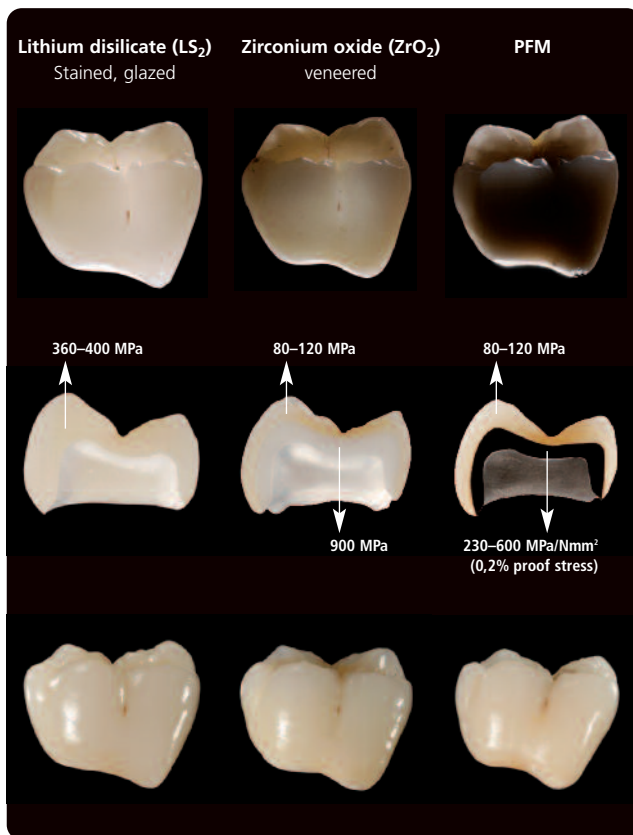


all ceramic
all you need



IPS e.max restoration of both dental arches by Prof. Dr. Edelhoff/Oliver Brix, Germany

| Lithium disilicate offers versatility and esthetics |



IPS e.max CAD crowns 24-27 and IPS e.max ZirCAD bridge 14-16
J. Seger, Ivoclar Vivadent AG, Liechtenstein/Dr. H. Gleixner, Germany

Glass-ceramics have been successfully used in dentistry for the past 20 years. Recently, patients have also started to show a growing interest in these highly esthetic and bio-compatible restorations. Today, glass-ceramics that can be machined with modern CAD/CAM equipment are available in addition to the materials that have to be pressed.

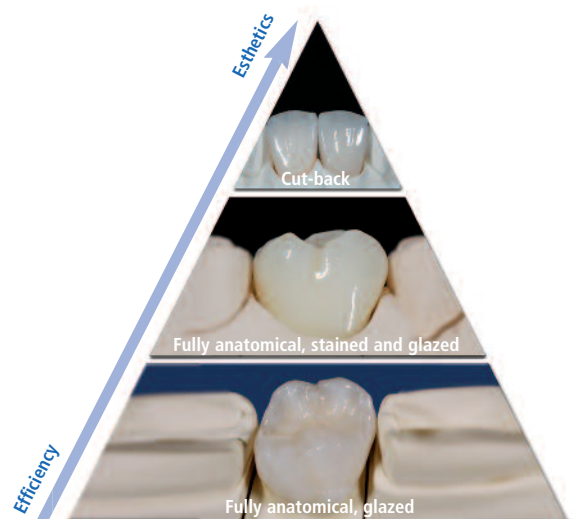
The clinical suitability of glass-ceramics for single tooth restorations has been proven in long-term studies. Posterior bridges in chewing areas, however, require even stronger materials such as metal or zirconium oxide (ZrO₂).

The innovative lithium disilicate (LS₂) glass-ceramic **IPS e.max CAD** offers 2.5 to 3 times (360 MPa) the strength of other glass-ceramics. This material does therefore not only meet the esthetic requirements, but it also represents an economically interesting alternative to ZrO₂-supported single-tooth restorations.

Together with the lab technician you will decide on the most suitable solution for your patients. You can choose between full veneers and the cut-back or the efficient staining technique. You can offer your patients a comprehensive range of all-ceramic solutions, which include the affordable fully anatomical and **esthetically pleasing alternative** to precious metal crowns as well as the more expensive veneered versions, which fulfill the most discerning requirements.

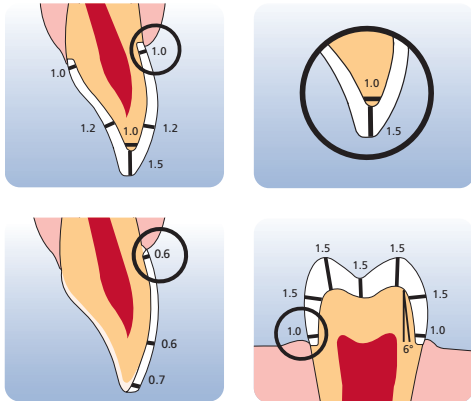
Moreover, your laboratory can use IPS e.max CAD to fabricate veneers, partial crowns, copings and implant superstructures.

Large pieces of dental work can be fabricated with a combination of products. For example, single tooth restorations made with the strong IPS e.max CAD ceramic and posterior bridges made with a high-strength zirconium oxide (ZrO₂) such as IPS e.max ZirCAD can be used together, as they are all veneered with one single veneering ceramic, therefore resulting in consistent shade matching and clinical behaviour (shine, wear) of the components.



IPS e.max CAD

| Lithium disilicate offers new options |



Placement of an IPS e.max CAD crown
Dr. A. Kurbad/K. Reichel, Germany

You can preserve tooth substance by using IPS e.max CAD, because the minimum required thickness for inlays is only 1 mm.

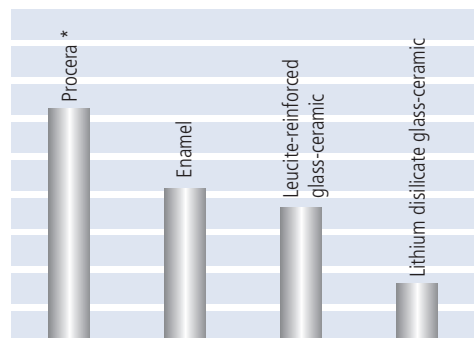
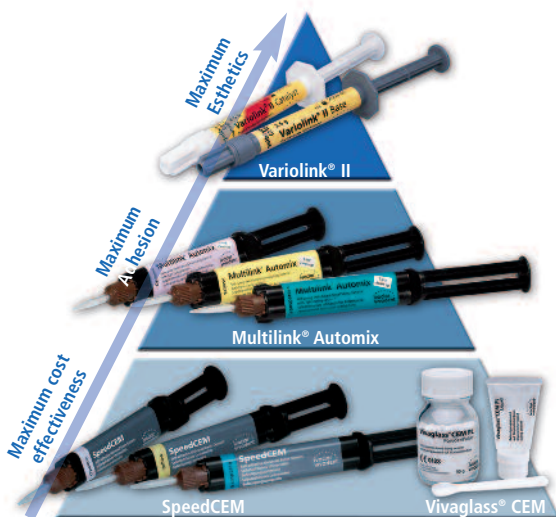
Make sure to observe the preparation requirements for all-ceramic restorations, such as a circular shoulder with rounded inner edges or a chamfer. The incisal edge of the prepared tooth must be at least 1.0 mm thick (milling tool geometry) to ensure optimum milling of the incisal area during CAD/CAM processing in the dental laboratory.

Glass-ceramic restorations no longer need to be seated with the adhesive technique at all costs. It goes without saying that the adhesive cementation, for example using **Variolink® II**, continues to be the "gold standard" in all-ceramics, that it convinces users with outstanding bonding values and that it has proven its worth in successful long-term studies.

Multilink® Automix is a luting composite for universal use. The **Multilink Primer** seals the dentin and provides a sound marginal seal as well as high bonding values. Nevertheless, a trend towards less complex cementation systems has been observed lately. If you have to cement IPS e.max CAD crowns, you can either use the adhesive, self-adhesive or conventional technique – the choice is yours.

The application of the new resin cement **SpeedCEM** is even easier than that of conventional cements and does not require a separate bonding agent. **Vivaglass® CEM** is an esthetic glass ionomer cement for the conventional technique. Both products are suitable for the cementation of high-strength all-ceramic restorations (ZrO₂ and LS₂). IPS e.max CAD restorations are generally etched before they are seated.

Occlusal adjustments after the placement of the restoration are made with a fine diamond. A diamond polishing system (eg OptraFine) is used to polish restorations to a final high gloss finish.



Wear of enamel on the antagonist tooth

* Not a registered trademark of Ivoclar Vivadent AG
Source: Wear of Enamel against Dental Ceramics. Sorenson, et al. J Dent res. Vol 78, 1999 #909

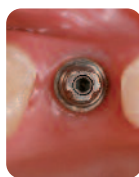
| Innovative CAD/CAM ceramics open up new possibilities |

Benefits of IPS e.max CAD

- Cost effective, esthetic alternative to cast crowns
- Alternative to highly esthetic zirconium oxide reinforced single tooth restorations
- Swift clinical procedure
- Choice between self-adhesive and conventional cementation



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