

IPS e.max[®] CAD

Milled lithium disilicate
all-ceramic restorations
from your laboratory



all ceramic
all you need



IPS e.max CAD (LS₂) for high esthetics and manifold possibilities

Strength and lifelike esthetics

IPS e.max CAD lithium disilicate glass-ceramic (LS₂) combines outstanding esthetic appearance with a high level of strength (≥ 360 MPa).

High clinical evidence in long-term scientific studies have proven the durability of IPS e.max CAD restorations. Due to the natural shade effects and ideal light transmission, these restorations provide esthetic solutions, which – depending on the patient's requirements – can be produced as either veneered or monolithic restorations.

The LS₂ material is available in four levels of translucency as well as Impulse shades and thus provides expressive esthetics – irrespective of the preparation. You may even resort to IPS e.max CAD restorations for patients with devitalized tooth structure. Inform your laboratory about the prepared tooth shade in addition to the full tooth shade and your dental technician then selects the LS₂ material in the required opacity to redesign the true-to-nature esthetic appearance.

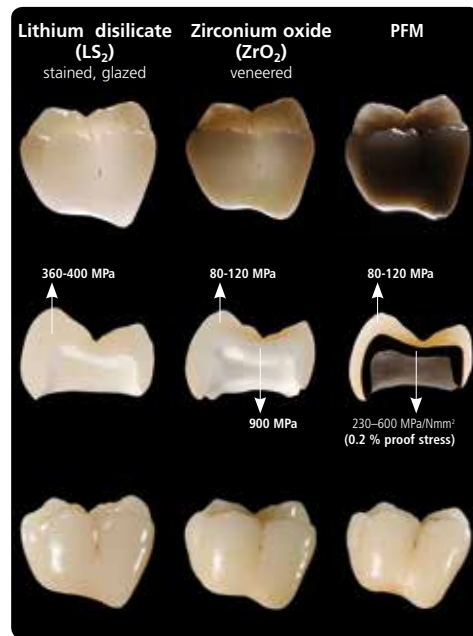
Especially for larger restorations (e.g. 3 to 4 unit bridges), enjoy the advantages of using IPS e.max CAD Veneering Solutions. It combines the high-strength zirconium oxide (ZrO₂) framework (IPS e.max ZirCAD) with an LS₂ veneering structure, which is mainly responsible for the expressive esthetics as well as the outstanding overall strength of the restoration.

Wide range of indications

Have your laboratory fabricate the following IPS e.max CAD restorations:

- (Thin) veneers, occlusal veneers (Table Tops)
- Inlays, onlays
- Crowns
- 3-unit anterior and premolar bridges
- Hybrid abutments, hybrid abutment crowns
- IPS e.max CAD Veneering Solutions (with ZrO₂ framework): crowns and multi-unit bridges

Select, in cooperation with your laboratory, the suitable solution for the respective patient case: a cost-effective, fully contoured restoration as an economical and appealing alternative to a full cast crown. Or you can choose the more exclusive version fabricated by means of the cut-back and layering technique, which will meet even the most exacting esthetic requirements of your patients.



IPS e.max CAD bridge with ZrO₂ framework (IPS e.max CAD Veneering Solutions)

Dr. R. Watzke/F. Perkon, Ivoclar Vivadent AG, Liechtenstein



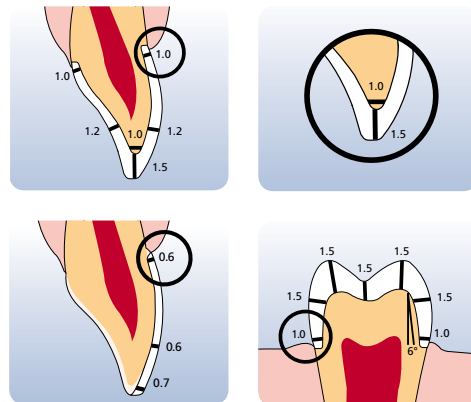
Lithium disilicate (LS₂) provides new alternatives

Preparation

With IPS e.max CAD, less tooth substance is removed in the preparation, for example inlays require 1mm thickness and veneers 0.4 mm.

Crowns and partial crowns require a minimal wall thickness of 1.5 mm. The incisal edge of the preparation should be at least 1.0 mm (milling tool geometry) in order to permit optimum milling of the incisal area during CAD/CAM processing in the laboratory.

When designing the preparation, make sure to prepare a circumferential shoulder with rounded inner edges or a chamfer.



Cementation

Depending on the indication, IPS e.max CAD restorations can be seated using either adhesive, self-adhesive or conventional cementation.

The light and dual-curing luting composite **Variolink® Esthetic** unites exceptional esthetics and user-friendly processing.

Multilink® Automix is a universal, self-curing luting composite with optional light-curing properties.

The self-adhesive, self-curing resin cement **SpeedCEM® Plus** is especially suitable for inserting zirconium oxide-supported restorations.

Monobond Etch&Prime® etches and silanizes glass-ceramic surfaces in only one working step.

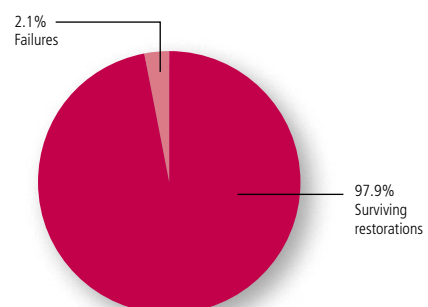
Occlusal adjustments after cementation are conducted with a (fine) diamond. A diamond polishing system (e.g. **OptraFine®**) is used to polish the restorations to a high gloss.



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

Successful clinical use

There are results of clinical studies lasting up to 4 years for IPS e.max CAD. Six clinical studies involving a total of 237 restorations (crowns) have shown that 97.3% of the restorations survived after a mean observation period of 3 years. With a survival rate of roughly 98% and a fracture rate of only 1.7%, the clinical efficiency of IPS e.max CAD is clearly superior to that of metal-ceramics and other ceramics.



Summary of the results of 6 clinical studies with IPS e.max CAD restorations.
(Source: IPS e.max Scientific Report volume 02/2001-2013)



IPS e.max[®] CAD

New possibilities with innovative CAD/CAM ceramic

Advantages of IPS e.max CAD

- Clinically proven, long-term all-ceramic restorations
- High strength and outstanding esthetics
- Economical alternative, e.g. instead of a full cast crown
- Comprehensive range of indications
- Adhesive, self-adhesive or conventional cementation

Laboratory logo | stamp



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This product forms a part of our Fixed
Prosthetics category. All the products of
this category are optimally coordinated
with each other.