IPS e.max®

IPS e.max® CAD

Milled lithium disilicate all-ceramic restorations from your laboratory

ivoclar vivadent®
passion vision innovation

IPS e.max® CAD (LS_2) for high esthetics and manifold possibilities

High strength and lifelike esthetics

Users and patients have been delighted with the versatility, reliability and expressive esthetics of IPS e.max® CAD restorations for more than ten years.

IPS e.max CAD is characterized by its outstandingly high strengh of 530 MPa*. The ideal combination of strength and esthetics allow you to restore the function, esthetics and biomechanics of teeth using minimally invasive techniques. Clinical studies confirm the excellent material properties.

The material allows for impressive esthetics irrespective of the shade of the prepared natural tooth. Therefore, users can rely on all-ceramic IPS e.max CAD restorations even in cases with non-vital teeth or metal core build-ups. Both the tooth shade and the preparation shade is passed on to the laboratory. There, a lithium disilicate material with the required opacity is selected to restore the natural esthetics. The IPS e.max Shade Navigation App assists you in selecting the correct shade, taking into account the preparation shade, the desired final shade and the restoration thickness.

IPS e.max CAD crowns, 11 years in situ
Dr A. Kurbad / K. Reichel, Germany

Determining the preparation shade
Dr S. Kina, Brazil / G. Ubassy, France

Wide range of indications

- Thin veneers (0.4 mm), veneers, occlusal veneers
- Inlays/onlays, partial crowns
- Crowns in the anterior and posterior region (≥ 1 mm)
- Three-unit bridges in the anterior and premolar region (second premolar as the terminal abutment)
- Hybrid abutments and hybrid abutment crowns

In collaboration with your laboratory, select a treatment option that is suitable for the particular patient: a cost-effective, fully contoured restoration as an economical and appealing alternative to a full cast crown. Or you can choose a more exclusive option fabricated by means of the cut-back and layering technique, which will meet the high esthetic requirements of discerning patients.

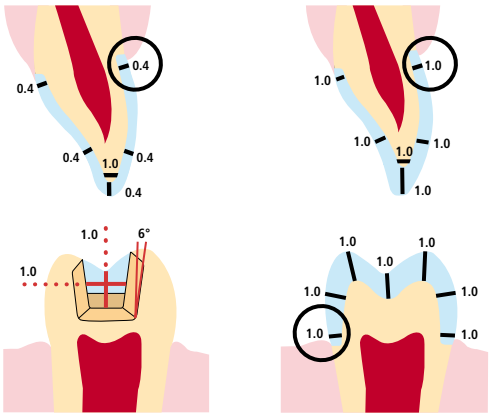
IPS e.max® CAD crowns prepared for (minimal) cut-back
Dr A. Kurbad / K. Reichel, Germany

* Mean biaxial flexural strength, measured over ten years, R&D Ivoclar Vivadent, Schaan, Liechtenstein

Lithium disilicate provides new alternatives

Minimally invasive preparation

IPS e.max CAD can be used for minimally invasive preparations since, for example, a material thickness of only 0.4 mm must be observed for veneers. The material thickness for IPS e.max lithium disilicate crowns can be reduced to 1 mm if adhesive cementation is used. When preparing a natural tooth for the insertion of an all-ceramic restoration, use a circular shoulder preparation with rounded inner edges and/or a chamfer preparation.



Cementation

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

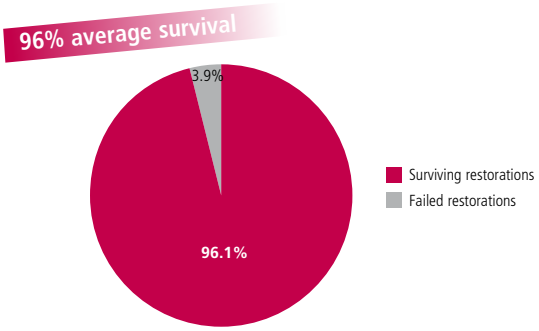
The light- and dual-curing luting composite **Variolink® Esthetic** combines unparalleled esthetics with user-friendly handling.
Multilink® Automix is a universal self-curing luting composite with light-curing option.
The self-adhesive, self-curing resin cement **SpeedCEM® Plus** with optional light-curing is particularly suitable for the cementation of zirconium oxide restorations.

Cementation with Variolink® Esthetic
Dr S. Koubi, France

Do not blast IPS e.max CAD restorations before cementation. **Monobond Etch & Prime®** allows you to etch and silanize glass-ceramic surfaces in one easy step. Occlusal adjustments after cementation can be made using (fine) diamonds. A diamond polishing system (e.g. **OptraFine®**) is used to polish the restoration to a high gloss.

Successful clinical use

There are currently clinical studies with up to 10 years of evaluated data available for IPS e.max CAD. Six external clinical studies showed that 96.1% of the adhesively or self-adhesively luted restorations (crowns and/or bridges) survived after observation periods from 3 years to 10 years. Due to its clinical performance, IPS e.max CAD provides an excellent alternative to metal-ceramics with similarly positive survival rates.



Summary of the results of 6 clinical studies with IPS e.max CAD restorations
(Source: IPS e.max Scientific Report Vol. 03/2001 – 2017)

Versatile possibilities with a legendary CAD/CAM ceramic

Advantages of IPS e.max® CAD

- All-ceramic restorations with long-term clinical evidence
- Stable results
- Lifelike, harmonious results
- High esthetics irrespective of the shade of the natural tooth
- Wide range of indications from thin veneers to three-unit bridges
- Adhesive, self-adhesive, or conventional cementation options

10 years in situ
Dr S. Kina /
J. C. Romanini, Brazil

Dr J. Ferencz / M. Notturno, USA

Dr T. Terada / Dr H. Sasaki, Japan

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

Laboratory logo | stamp

IPS e.max® forms a part of our Fixed Prosthetics category. All the products of this category are optimally coordinated with each other.

Ivoclar Vivadent AG
Bendererstr. 2
FL-9494 Schaan
Liechtenstein
Tel. +423 235 35 35
Fax +423 235 33 60
www.ivoclarvivadent.com

ivoclar vivadent®
passion vision innovation