



IPS **e.max**[®]

CAD

The original lithium disilicate
CAD/CAM glass-ceramic

All ceramic,
all you need.

Excellent quality and esthetics

IPS e.max® CAD is the world's top-selling CAD/CAM glass-ceramic¹. The material provides a proven and efficient solution for fabricating lithium disilicate restorations in the dental laboratory.

Due to its superior esthetics, very good mechanical properties and high technique tolerance, the material produces excellent clinical results and enjoys very high customer satisfaction.

Exceptional esthetics

For anterior teeth in particular

Well-thought-out assortment

The right block for every situation

High strength


530 MPa²

Utmost reliability

IPS e.max CAD is based on the IPS e.max all-ceramic system, which dentists, dental technicians and patients have been relying on for many years. It is therefore the product of extensive knowledge and experience and exceptional passion.



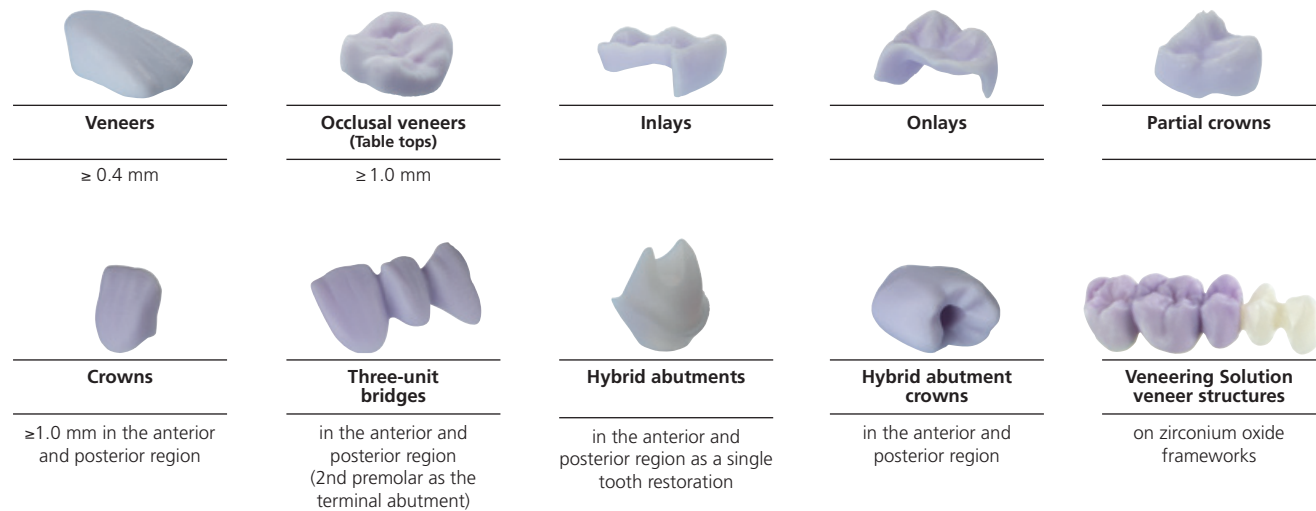
¹ Based on sales figures
² Typical mean value of the biaxial flexural strength over a period of 10 years, R&D Ivoclar Vivadent, Schaan, Liechtenstein



Made of the legendary blue block

Outstanding versatility

IPS e.max CAD has an unrivalled indication spectrum in CAD/CAM glass-ceramics. Due to the high strength (530 MPa¹) of the lithium-disilicate glass-ceramic, full-contour crowns of minimum 1 mm thickness as well as thin veneers of minimum 0.4 mm can be produced.



Abutment Solutions Individual restorations

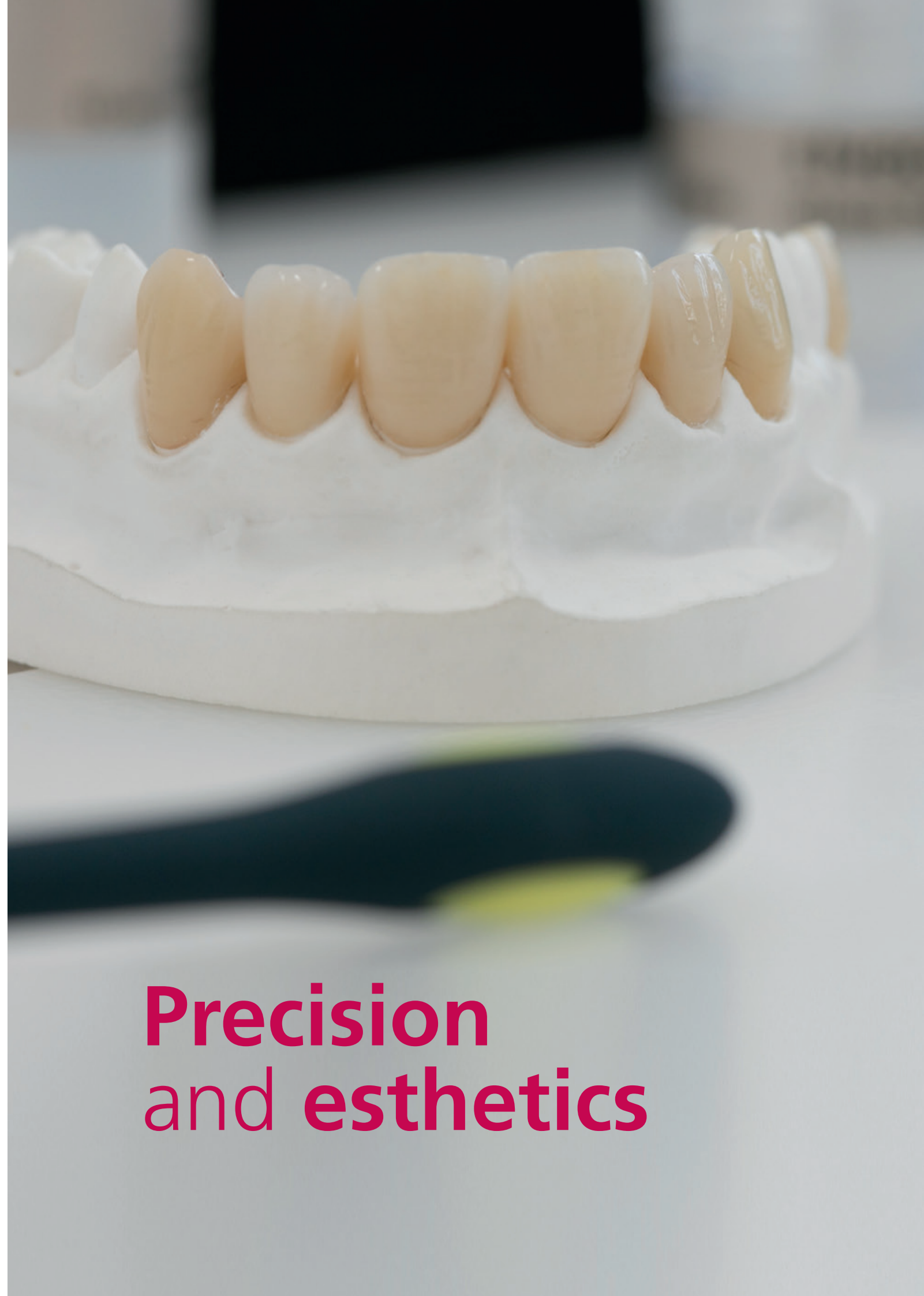
The hybrid abutment restorations made of IPS e.max CAD show exceptionally high accuracy of fit, excellent adhesive bond strength and lasting esthetics due to the tooth-coloured abutments.

IPS e.max CAD A14 and A16 blocks are used to produce hybrid abutments (individual abutments) and hybrid abutment crowns (abutment and monolithic crown in one piece). The abutments feature a prefabricated interface for the extraoral bonding with a titanium base (e.g. Dentsply Sirona Ti-Base).



¹ typical mean value of the biaxial flexural strength over a period of 10 years, R&D Ivoclar Vivadent, Schaan, Liechtenstein

Abutment solutions are flexible and efficient: IPS e.max CAD is suitable for implant-supported single-tooth restorations.













Precision and esthetics

A wide selection for a perfect fit

The assortment of IPS e.max CAD blocks comprises a well-thought-out selection of shades and translucency levels that will enable restorations to blend in seamlessly with the natural tooth structure.

A suitably coloured block is available for virtually every clinical situation. The restorations can be customized by means of the staining, cut-back or layering technique.

IPS e.max CAD blocks are equipped with the attachments for the authorized CAD/CAM systems PrograMill (Ivoclar Digital), CEREC[®]/inLab[®] (Dentsply Sirona) and PlanMill (Planmeca).

	IPS e.max CAD HT	IPS e.max CAD MT	IPS e.max CAD LT	IPS e.max CAD MO	IPS e.max CAD Impulse
Block					
Translucency	 High translucency similar to that of natural enamel	 Medium translucency	 Low translucency similar to that of natural dentin	 Medium opacity	 Lifelike opalescent effect for the replacement of enamel
Shades¹	20 (4 Bleach BL, 16 A–D)	7 (BL2, BL3, BL4, A1, A2, A3, B1)	20 (4 Bleach BL, 16 A–D)	5 (MO 0, MO 1, MO 2, MO 3, MO 4)	2 (Opal 1, Opal 2)
Sizes¹	I12, C14, B40, B40L	C14	I12, C14, C16, A14, A16, B32	C14, A14	C14
Indications	Thin and occlusal veneers Veneers Inlays Onlays Partial crowns	Thin and occlusal veneers Veneers Partial crowns Crowns	Veneers Partial crowns Crowns Bridges Hybrid abutment crowns	Frameworks on lightly stained cores	Thin occlusal veneers Veneers
Technique	Polishing Staining Cut-back CAD-On	Polishing Staining Cut-back	Polishing Staining Cut-back	Layering	Polishing Staining Cut-Back

IPS e.max[®] Shade Navigation App



Five easy steps to finding the correct shade and translucency level

¹ The range of products varies according to the different CAD/CAM system and block sizes (depending on the software solutions). The availability of block types, sizes and shades may vary from country to country.

You can rely on
the original
all-ceramic





Crowns (11, 21) and veneers (12, 22): IPS e.max® CAD
Dr O. Vjero / D. Vinci, Switzerland

Lifelike esthetics

Clinical cases
with exquisite,
natural-looking
outcomes

**“I can rely on the legendary blue blocks:
The esthetic results are outstanding and the
clinical long-term studies on longevity and
stability are impressive.”**

Dominique Vinci
Switzerland



Anterior crowns (13 – 23): IPS e.max® CAD, staining technique
Dr J. Ferencz / Marisa Notturmo, USA



Crowns (12-22), veneers (13, 23): IPS e.max® CAD,
cut-back technique (after 3 years)
Dr A. Aloum / A. Farah, United Arab Emirates

Superb quality

96.1%

Survival rate¹

“All-ceramic, high-strength lithium disilicate restorations in the daily clinical application for single tooth restorations form an alternative to the metal ceramic gold standard.²”

Polyclinic for Dental Prosthetics
at the University Hospital of Düsseldorf, Germany

96.1 % survival rate¹

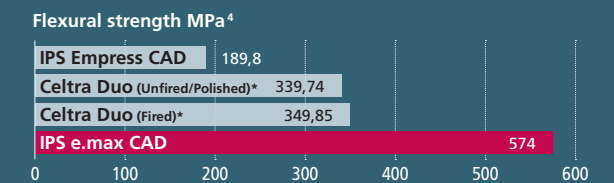
IPS e.max CAD offers outstanding esthetics and strength. It has obtained excellent reviews with regard to its resistance to delamination, fracturing, marginal leakage and staining. Its survival rate is exceptional: No wear was reported for any of the restorations placed.³



Dr Andreas Kurbad / Kurt Reichel, Germany

High flexural strength

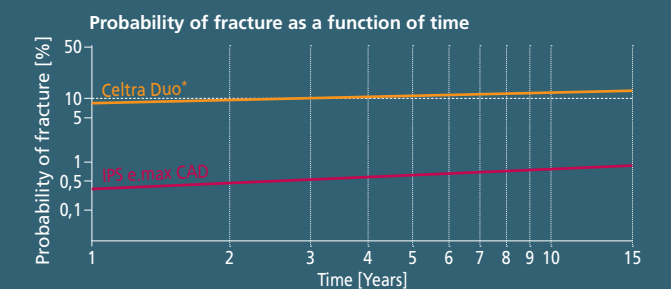
The biaxial strength values as well as the fracture resistance values of IPS e.max CAD were significantly higher than those of the other materials tested. The difference between fired and unfired, but polished Celtra Duo restorations was minimal. Zirconium oxide-reinforced lithium silicate did not show any advantages over lithium disilicate in clinical trials.⁴



High flexural strength is of major importance for load bearing restorations. It is measured as the load or force at the point of fracture.

Long-lasting results

An in-vitro study has established that the probability of fracture of an IPS e.max CAD restoration is below 1% after 15 years in situ, while it is above 10% for restorations made of competitive materials.



Applied force $\sigma = 35$ MPa (representative of the premolar region) and assumed 1400 chewing cycles per day (SEM calculation (Pre-Clinic, R&D Ivoclar Vivadent, Schaan, Liechtenstein) based on the test results⁵)

¹ IPS e.max® Scientific Report Vol. 03 / 2001 – 2017

² Boldt J, Spitznagel F.A. (2017). Lithium disilicate: Indications and scientific evidence. DZZ 72 (4)

³ IPS e.max® Scientific Report Vol. 03 / 2001 – 2017 – Reference: Dental Advisor (2015)

⁴ IPS e.max® Scientific Report Vol. 03 / 2001 – 2017 – Reference: Randi et al. (2017)

⁵ “Ring on Ring Test” acc. to ASTM (American Society for Testing and Materials) C1499, Jülich Forschungszentrum (Institut für Energie- und Klimaforschung (IEK), Abteilung: Werkstoffstruktur und -eigenschaften (IEK-2)), 2018

* These brands are not registered trademarks of Ivoclar Vivadent AG.

A finely tuned **system** for **impressive results**

1 Simplified block selection



The IPS e.max Navigation App (SNA) assists you in finding the most suitable shade and translucency - for reliable and relaxed working.

6 Appropriate cementation



Ivoclar Vivadent supplies a specialized cementation system for use with IPS e.max CAD. Depending on the indication at hand, the restorations can be placed using either the adhesive, self-adhesive or conventional luting technique.

- Esthetic cementation with the Variolink® Esthetic luting composite
- Easy conditioning with the self-etching glass-ceramic primer Monobond Etch & Prime®

Finding your way out of the cements maze:
www.cementation-navigation.com

5 Precision characterization/ glazing



The stains and glazes of the IPS Ivocolor® assortment enable you to customize crystallized IPS e.max CAD restorations.

- Simplified handling due to innovative paste formulation
- High gloss at a firing temperature of only 710° C
- Fluorescence with IPS Ivocolor Glaze Fluo

2 Fast, precision milling



IPS e.max CAD is efficiently and rapidly machined in the PrograMill milling machines to produce high-precision results. The state-of-the-art milling machines are specially designed to machine IPS e.max CAD.

3 Optimum enhancement



The sophisticated and innovative Programat® combines high-tech and futuristic design in a highly efficient and user-friendly ceramic furnace. The furnaces increase your profitability and efficiency and heighten the precision of your results.

4 Esthetic ceramic layers



IPS e.max Ceram is a versatile layering ceramic featuring intuitive modelling properties and excellent stability.

- Consistent layering scheme
- Harmonious shade adjustment
- Excellent firing behaviour

ipsemax.com

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The logo for Ivoclar Vivadent features a series of seven colored dots (green, yellow, blue, grey) arranged in a slight arc above the text. The text "ivoclar" is in a blue sans-serif font, and "vivadent" is in a larger, bold blue sans-serif font. A registered trademark symbol (®) is located to the right of "vivadent". Below the main text, the tagline "passion vision innovation" is written in a smaller, black sans-serif font.

ivoclar
vivadent[®]
passion vision innovation