ivoclar

Experience performance

Smart chairside solutions

Trusted materials
for clinical success

Making People Smile

Everything you need for single-visit treatments

Efficient and successful fixed prosthetic restorations: Our materials are designed to meet highest esthetic and functional standards, enabling you to offer your patients the best possible care with indirect restorations.

Your benefits at a glance:

- Consistently reliable, outstanding results backed by strong clinical evidence
- Faster treatments and increased productivity
- High patient satisfaction thanks to esthetic, high-quality treatment outcomes
- The ideal material and shade offer for any patient situation

Your workflow. Your decision.

Our versatile material portfolio gives you maximum flexibility in your CAD/CAM workflow and supports efficient single-visit and same-day treatments with solutions for any clinical situation.

Experience performance

Clinically proven materials for your treatment success: At every step of the treatment, you benefit from our clinically proven, reliable solutions, optimally coordinated within our workflow.

IPS e.max® CAD: The original.

IPS e.max CAD is the original lithium disilicate glass-ceramic for the efficient CAD/CAM fabrication of full-contour restorations. The material combines high strength with broad application versatility, offering maximum flexibility in the chairside workflow – for reliable and esthetic results in just one session.

- ✓ Powerful combination of stability and a high flexural strength of 530 MPa [1]
- ✓ Excellent individual shade matching thanks to the wide range of shade and translucency options [2]
- ✓ Cementation flexibility to suit each clinical situation – from adhesive (e.g. Variolink® Esthetic), to self-adhesive or conventional protocols
- ✓ 11:10 minutes speed crystallization in the Programat® CS6 [3] or 14:10 minutes crystallization in the CEREC® [4] SpeedFire
- ✓ Self-glaze technique with OptraGloss® Extra Oral

95.2%
average survival rate[5] over a period of up to 15 years

Minimally invasive veneer treatment in clinical practice

Veneers on teeth 12–22 made from IPS e.max CAD, shade A1 MT – subtle change with a lifelike appearance

© Dr Kristine Aadland, USA

Trust grows from quality

The quality of IPS e.max CAD begins with the manufacturing process: A high degree of automation, standardized process controls and precise manufacturing procedures ensure consistently reliable material properties. Each block undergoes rigorous testing before it reaches your practice – ensuring reproducible results and confidence in everyday clinical use.

For the fabrication of:

- Crowns
- Inlays
- Onlays (e.g. occlusal veneers, partial crowns)
- Veneers
- Implant-supported hybrid restorations (hybrid abutments, hybrid abutment crowns)
- 3-unit bridges up to the second premolar as the terminal abutment

Authorized CAD/CAM systems:

- PrograMill® (Ivoclar)
- CEREC® / inLab [4] (Dentsply Sirona)
- N4+, Z4, E4 (vhf)
- PlanMill® [4] (Planmeca)
- Ceramill® [4] (Amann Girrbach)

Scientific Report

[1] Mean biaxial flexural strength; result after more than 10 years of ongoing quality testing, R&D Ivoclar, Schaan.
[2] The offering varies depending on the CAD/CAM system.
[3] Programat CS6, superspeed crystallization, 11:10 minutes, IPS e.max CAD HT, MT, LT, IPS e.max CAD Crystall./Glaze Spray or polishing technique (self glaze), maximum two restorations, R&D Ivoclar, Schaan.
[4] CEREC® / inLab, PlanMill® and Ceramill® are no registered trademarks of Ivoclar Vivadent AG.
[5] Scientific Report: IPS e.max Vol. 04/2025, p. 7.

IPS e.max® ZirCAD Prime – The next level of speed and strength

IPS e.max ZirCAD Prime is a zirconium oxide block designed for the fabrication of fixed, full-contour restorations in the anterior and posterior regions. Made from state-of-the-art multilayer zirconium oxide, IPS e.max ZirCAD combines a fast sintering process with impressive strength, making CAD/CAM chairside single-visit treatments even more efficient – without compromising on quality.

- Speed sintering in just 15:00 minutes in the Programat® CS6 [6] or sintering in the CEREC® [7] SpeedFire in around 16:00 minutes
- Thanks to its strength of 1100 MPa [8] wall thicknesses can be reduced to just 0.8 mm for crowns
- Natural progression of shade and translucency [9]
- Polishing with OptraGloss® Extra Oral instead of glazing – for increased efficiency in the workflow
- Simple and fast conventional cementation with ZirCAD® Cement

Available in **11 shades**

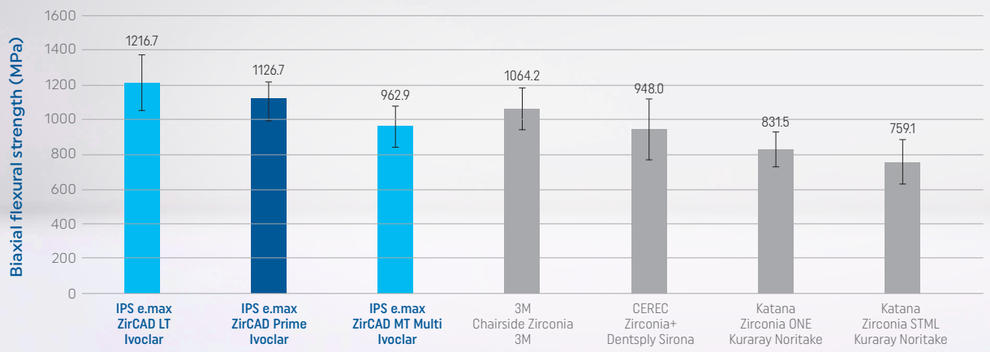
Inspired by nature

IPS e.max ZirCAD Prime consists of several layers of different raw materials. The natural progression of shade and translucency between the high-strength dentin area and the translucent incisal zone is achieved through a transition layer.

This enables the fabrication of restorations that meet high mechanical demands while delivering esthetic results without the need for complex individualization.

Scientific facts that speak for themselves

High flexural strength is a key factor in ensuring restoration stability. Delivering 1100 MPa[2] [2] of flexural strength and lifelike esthetics, IPS e.max ZirCAD Prime blocks meet the highest standards of performance and appearance.



Source: Hill T., Biaxial flexural strength of chairside zirconia blocks, Test Report, Ivoclar Vivadent, 2023. Data on file.

For the fabrication of:

– Crowns

Authorized CAD/CAM systems:

– CEREC® / inLab [7] (Dentsply Sirona)

Scientific Report

[6] Programat CS6, superspeed sintering in 15 minutes, without predrying, three crowns or CEREC® SpeedFire, 16 minutes, withoug predrying, two crowns. R&D Ivoclar, Schaan.
[7] CEREC® /inLab, PlanMill® and Ceramill® are no registered trademarks of Ivoclar Vivadent AG.
[8] Dentin, typical mean value of biaxial flexural strength, R&D Ivoclar, Schaan.
[9] Under natural lighting conditions. Artificially generated UV or near-UV light may produce a misleading visual impression.

Just polish. And restore.

IPS Empress® CAD

IPS Empress CAD is a highly esthetic leucite-reinforced glass-ceramic material developed for the efficient CAD/CAM fabrication of full-contour single-tooth restorations. IPS Empress CAD blocks combine impressive esthetics with ease of use and efficient fabrication – ideal for dentists who prioritize clinically proven quality and optimized practice workflows.

- ✓ High-end esthetics and optimal shade adaptation to the natural tooth structure thanks to its chameleon effect
- ✓ Simple, time-efficient processing without firing for efficient single-visit chairside treatments
- ✓ High accuracy of fit and homogenous surface structure [10]
- ✓ Proven reliability backed by more than 25 years of clinical use
- ✓ Polychromatic Multi blocks with natural progression of shade and translucency from dentin to incisal – for impressive esthetics without any additional characterization

For the fabrication of:
- Crowns
- Inlays
- Onlays
- Veneers

Tetric® CAD

Tetric CAD is an esthetic composite block ideally suited for the efficient chairside fabrication of single-tooth restorations in just one treatment session.

- ✓ Easy and efficient processing
- ✓ Excellent polishability
- ✓ Minimally invasive preparation
- ✓ Natural integration

For the fabrication of:
- Crowns
- Inlays
- Onlays
- Veneers

Telio® CAD

Telio CAD blocks are made from cross-linked PMMA, offering a high-class solution for the efficient and cost-effective fabrication of long-term temporary restorations.

- ✓ Shade stability and natural fluorescence
- ✓ Impressive polishability
- ✓ Cost-effective fabrication of temporaries

For the fabrication of:
- Temporary crowns
- Temporary bridges with up to two connected pontics
- Implant-supported, temporary hybrid abutment crowns

Effective polishing with OptraGloss® Extra Oral or OptraGloss®

[10] Zimmermann M., et al., Journal of Prosthodontics , 2019, e504e509, additional data on file.

From temporary to final restoration

IPS e.max® CAD and Telio® CAD blocks offer a prefabricated interface for extra-oral bonding to a titanium base, enabling the chairside fabrication of implant-supported hybrid abutments and hybrid abutment crowns using clinically proven materials.

- Efficient fabrication
- Excellent accuracy of fit due to CAD/CAM processing [11]
- Clinically proven materials
- High esthetics

[11] Zhang Y et al., Clin. Oral. Implants. Res. 2019, 30, p. 1059–1066.

Authorized CAD/CAM systems

A key factor in the success of Ivoclar's CAD/CAM materials is the long-standing partnership with innovative CAD/CAM hardware and software providers. Authorized manufacturing systems support the fabrication of highly precise and durable restorations.

- Optimally coordinated and tested processes
- High quality standards
- Milling and grinding strategies validated from Ivoclar
- Dentsply Sirona, Amann Girrbach, Planmeca, vhf camfacture AG

Partner overview

[12] CEREC® / inLab and PlanMill® are no registered trademarks of Ivoclar Vivadent AG.

Programat® chairside furnaces

The high quality standards, consistent firing results and user-friendly operation, combined with a wide range of features, make this system a favourite among dentists worldwide. Programat furnaces rank among the best-selling ceramic furnaces – and for good reason.

Speed programs

The specially developed speed programs for IPS e.max® CAD and IPS e.max® ZirCAD Prime enable an exceptionally fast crystallization or sintering process.

Intuitive operation

With their large, full-colour widescreen touchscreens, our chairside furnaces offer intuitive and user-friendly operation.

Proven quality

40 years of success – and still setting the benchmark for furnace quality.

Open systems

In addition to pre-set Ivoclar programs, users can easily create their own custom firing programs.

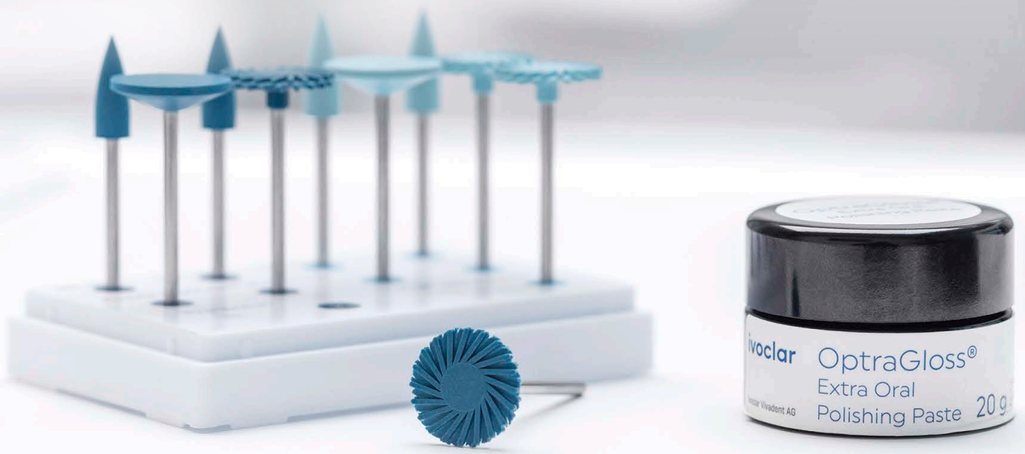
Programat CS6
Crystallization, sintering and glazing furnace

Programat CS2
Crystallization and glazing furnace

OptraGloss® Extra Oral

OptraGloss Extra Oral is a universal, two-step polishing set for the extra-oral application for CAD/CAM restorations. In combination with the optional polishing paste, the polishers create a high-gloss finish that meets even the most demanding esthetic expectations.

- Easy and efficient application
- Quick results with minimal effort
- Cost effective due to long service life
- Suitable for all oxide- and glass-ceramics as well as PMMA and composites



IPS e.max® CAD Crystall./

IPS e.max CAD Crystall./Shades, Stains and Glaze is the universal stain and glaze assortment for IPS e.max CAD, IPS e.max ZirCAD and IPS Empress CAD for chairside use.

- All-in-one solution with stains, glazes, corresponding liquids and add-on materials
- Comprehensive assortment and easy handling
- Coordinated with Ivoclar's all-ceramic block portfolio

Variolink® Esthetic

Variolink Esthetic is a light- and dual-curing luting composite for adhesive cementation procedures, providing reliable and impressive clinical results. It offers a versatile solution for all types of restorations and materials.

- Impressive esthetic results
- Well-balanced and compact Effect shade range
- Proven and reliable shade stability [13]
- User-friendly handling and controlled excess removal [14]
- Coordinated with Ivoclar materials

ZirCAD® Cement

ZirCAD Cement is specifically designed for the conventional cementation of restorations made from high-strength materials such as zirconium oxide. The quick excess removal and easy application of the cement ensure predictable cementation results.

- Faster cementation procedure for high-strength all-ceramic and metal-based restorations on retentive preparations.
- Reliable and cost-effective cementation
- Continuous release of fluoride

[13] Gianasmidis A, DZW 2016 (38), p. 14–15, additional data on file.
[14] Gianasmidis A, DZW 2016 (39), p. 18–19, additional data on file.

Efficiency in the practice. Confidence in the results.

Isolate

Relaxed and efficient treatments with OptraGate® 2

Restore

IPS e.max® materials for all-ceramic chairside restorations with impressive results

Produce

Optimally coordinated fabrication processes with the authorized milling systems of our longstanding cooperation partners

Fire

Fast sintering, crystallization and glazing with the Programat® CS6

Finish

Efficient high-gloss polishing with OptraGloss® Extra Oral

Place

Reliable adhesive cementation with Variolink® Esthetic or easy conventional cementation with ZirCAD® Cement

Protect

Protecting restorations with the unique combination of active ingredients of Cervitec® Gel

Ivoclar Vivadent AG | Bendererstr. 2 | 9494 Schaan | Liechtenstein
Phone +423 235 35 35 | Fax +423 235 33 60

ivoclar.com

EN / 2025-11