Sirona CAD/CAM materials

Top quality geared to challenging applications.
Practical experience is hard to beat.

CEREC Optispray – precision at the touch of a button.

Dental professionals and patients are unanimous: metal restorations should be avoided if at all possible. By contrast, all-ceramic materials offer outstanding benefits. They are biocompatible, display enamel-like mechanical properties and allow you to conserve the natural tooth tissue. Enjoy every day. With Sirona.

All-ceramic restorations fabricated on Sirona’s CAD/CAM systems have been proven many millions of times for more than 25 years. And we are continuously working to expand the spectrum of clinical indications, thus ensuring that more patients than ever before gain access to state-of-the-art aesthetic dentistry. In this context we have developed a range of high-performance materials that deliver excellent precision and are perfectly matched to Sirona’s innovative CAD/CAM software and milling machines.

Sirona Best Quality Label Guarantee:
- High-performance materials for maximum milling and precision requirements
- Individual milling parameters for each material
- Unlimited compatibility with Sirona’s milling units
- Direct material selection in the inLab and CEREC software
- Materials are optimally compatible with the milling process for high-quality restorations

Every inCoris package now includes a labeling set allowing the dental technician to demonstrate to the dentist or patient that only premium materials were used.

CEREC Stone BC modeling material – a highlight set in stone.

In combination with CEREC Bluecam the super-hard (Type IV) CEREC Stone BC allows you to create high-precision scannable models.

CEREC Stone BC is a modeling material developed exclusively for use with CEREC Bluecam. It offers optimal optical properties including brightness and contrast and no powdering required. In combination with CEREC Bluecam, CEREC Stone BC speeds up and simplifies the acquisition of digital impressions. At the same time it also delivers unprecedented levels of precision.

- Much easier to use than conventional scanning powder
- Preparation at the touch of a button – quick, simple, precise, hygienic
- The ultrathin, homogeneous coating enhances the imaging performance of the CEREC Bluecam, especially with regard to the preparation margins
- CEREC Optispray is water-soluble and easy to remove with the SPRAYVIT syringe
- Practical 50 or 200 ml spray cans with special nozzles for uniform dosage

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CEREC Blocs – for enamel-like inlays, onlays, veneers

The CEREC shade system helps you achieve the right color matching.

The CEREC Shade Guide contains 12 samples taken from its selection of real-life samples. The demand for highly aesthetic full ceramic restorations is growing, as well as the wish for tooth colored, natural looking restorations on implants. Thanks to the integration of customized zirconium oxide abutments into the already proven inLab CAD/CAM system, you can start today with in-house production.

InCoris Z10 custom—customized zirconium oxide abutments

- Special-purpose zirconium oxide blocks available in two different shapes (PC12 and PC14) and sizes (S and L) with a pre-fabricated screw channel and anti-rotation device
- Matching Sirona scanbody for various implant systems
- Insulation materials and sintering trays. Thanks to its outstanding productivity, the inFire HTC speed is the ideal complement to the inLab system.

- Very high productivity with up to 5 additional sintering processes per working day due to a reduction of up to 75% in sintering time
- Complete fabrication of veneered multilayer bridges within a single day
- Time function for overnight sintering
- Enhanced energy efficiency: thanks to significantly shorter heating and cooling times (4 kWh instead of 10 kWh)

Simple and versatile:

- Choice of high-speed and standard sintering programs
- Program presets for Sirona, VITA Zahnfabrik and ivoclar vivadent ceramic materials
- Two additional high-speed sintering programs for inCoris Z1 speed and VITA In-Ceram YZ speed
- 12 additional programs for user-defined sintering programs (prolonged and high-speed)
- Four sintering programs with pre-styling and post-conditioning

| Time savings in comparison with centralized production | 25%–50% |
| Time and cost benefits: | 75% of the sintering time |
| True beauty comes from within. | Sintering speed second to none. |

The CEREC Blocs and CEREC Blocs PC consist of a finely structured feldspar ceramic material, which is biocompatible and resembles natural tooth enamel in terms of its shading, strength and abrasion resistance. It is the ideal material for tissue-conserving, aesthetic chairside restorations.

- Staining: Natural-like, uniform, robust, and highly aesthetic
- High flexural strength and wear resistance
- Pronounced translucency and chameleon effect
- Enamel-like abrasion resistance
- Very good polishing characteristics
- Increased security from chipping due to clinically proven prefabricated screw channel and anti-rotation device

The complete digital fabrication of framework and veneering structures with the inLab software and the MC XL milling unit.

Material selection:

- Highly aesthetic and natural-looking full ceramic restorations
- High flexural strength and wear resistance
- Pronounced translucency and chameleon effect
- Enamel-like abrasion resistance

The inLab system allows you to leverage the benefits of the CEREC System while expanding your options for chairside fabrication.

- Intrinsically stable: no pre-forms or pre-milled frameworks
- Matching Sirona scanbody for various implant systems
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- Time function for overnight sintering
- Enhanced energy efficiency: thanks to significantly shorter heating and cooling times (4 kWh instead of 10 kWh)

The inCoris Z10 custom—customized zirconium oxide abutments

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- Matching Sirona scanbody for various implant systems
- Enhanced energy efficiency: thanks to significantly shorter heating and cooling times (4 kWh instead of 10 kWh)

- True beauty comes from within.
- Sintering speed second to none.
The Sirona inCoris ZI and inCoris AL materials are the ideal basis for the cost-effective fabrication of high precision ceramic restorations—e.g. finely designed copings, bridge frameworks and custom abutments. Excellent biocompatibility goes hand in hand with perfect optical properties.

Optical digital impressions with Sirona Connect are an innovative, precision alternative to conventional dental impressions. The intraradial digital images can be calculated to create a 3D model and sent directly via internet to a dental laboratory of choice. Two possibilities for manufacturing professional physical models after the dental laboratory additionally for restorations: centrally produced or in-house with a milling unit.


cAD/CAm materials for your laboratory

From digital impressions to a model.

The laboratory sends the 3D model data received from the dentist which was previously used for cleaning the conventional impressions and creating the restoration. It is also possible to scan conventional elastomer impressions and create models from the data.

In-house model milling

Modeling units

Step Bur 12, Cylinder Pointed Bur 12
Step Bur 12 S, Cylinder Pointed Bur 12 S
Step Bur 15, Cylinder Pointed Bur 15
Step Bur 15 S, Cylinder Pointed Bur 15 S
Step Bur 20, Cylinder Pointed Bur 20

Restoration design

Inlays
Onlay
Teeth preparation

Finishing

2% acrylic is added to the veneering materials

Stereolithography SLA process.

Characteristics

Polishing

Available in three block sizes and color

Milling

Sirona Connect: The central production models are fabricated from acrylic resin in a stereolithography SLA process. They are then pinned to the base plate and used in the lab within a few working days.

The inCoris TZI model is produced with pin holes into the side wall.

Technical details

Adhesive

3M ESPE-Composite resin or self-adhesive cement with low-temperature activation.

Composition

For use in combination with inCoris ZI (e.g. VITA VM 9)

Processing

Gentle pressure.

Thermal expansion coefficient

0.6–1.6 x 10–6/K

Shading and glazing

As an alternative to polishing, the restoration can be glazed and then conventionally fired in order to create a final glaze. This process can be time-consuming.

Polish CEREC Blocs using flexible aluminium oxide paste. Ensure ample water cooling and apply only gentle pressure.

As an alternative to polishing, the restoration can be glazed and then atmospherically fired in order to create a final glaze. This process can be time-consuming.

After combustion using an inCoris TZI Coloring Liquid, the laboratory sends the model data via internet to a dental laboratory of choice. Two possibilities for manufacturing professional physical models after the dental laboratory additionally for restorations: centrally produced or in-house with a milling unit.

The control process models are fabricated from acrylic resin in a stereolithography SLA process. They are then pinned on a model plate and used in the lab within a few working days.

The individual model segment complete with pin holes is accurately seated in the side wall. Thus, the model is attached to the base plate.
Sirona – unique worldwide systems expertise in dental equipment products

Sirona develops and manufactures a comprehensive range of dental equipment, including CAD/CAM Systems for dental practices (CEREC) and laboratories (inLab), Instruments and Hygiene Systems, Treatment Centers and Imaging Systems. Sirona manufactures high technology products that guarantee ease of use and a high return on investment – for the good of your practice and for the benefit of your patients. In this way, you can approach every challenge you face with confidence. *Enjoy every day. With Sirona.*

Sirona Dental Systems · E-mail: contact@sirona.com · [www.sirona.com](http://www.sirona.com)