

CEREC MTL Zirconia: great strength, fine esthetics, and effortless processing

Fast, accurate, and esthetic: this is how digital dentistry can be described in just one visit. And it is becoming increasingly popular. Dentsply Sirona announced the latest step in helping dentists achieve their digital dentistry clinical and practice goals – the launch of a truly esthetic, high-strength zirconia CAD/CAM block in a bold new partnership with VITA Zahnfabrik. CEREC MTL Zirconia brings together a high level of esthetics and ease of processing alongside the strength familiar with zirconium oxide in a multilayer graduated zirconium oxide block.

Charlotte, September 15, 2022. Dentsply Sirona has helped shape the world of digital dentistry with innovation across multiple imaging and software platforms. This effort has continually sought to respond to the voice of our customers and deliver the tools clinicians need and want to be successful. Specifically, in the CEREC workflow where patients require a restoration, dentists are faced with an important question: Which material fits best in terms of strength, esthetics, and processing simplicity? Until now, material selection has been limited, particularly in delivering across all three of these vital performance areas. Less than one year ago Dentsply Sirona began to shift the conversation from compromise to delivering on what is required with the release of CEREC Tessera. CEREC MTL Zirconia continues this conversation, particularly for posterior restorations where zirconia blocks have been critical to success.

CEREC MTL Zirconia is a zirconium oxide enriched with yttrium oxide that leaves virtually nothing to be desired. A key factor in the material developed and produced by VITA Zahnfabrik is the special color technology consisting of a multilayer color gradient. This MTL (multi transitional layer) technology, in combination with high translucency, results in very natural esthetics without compromising on strength. This property turns CEREC MTL Zirconia into genuine innovation and an excellent choice for bridges and crowns as well as for inlays, onlays, and veneers.

While this color transition visibly improves the esthetics, the 3-point flexural strength of more than 850 MPa helps ensure very high strength. This enables minimally invasive crown preparation with a wall thickness as low as 0.6 mm. This strength and wall thickness allows for ideal anatomically designed posterior restorations and gives clinicians more flexibility in the CEREC workflow.

Chairside supply with simple and fast workflow

And one of the best parts: Processing is fast and easy. After scanning with CEREC Primescan, which is now twice as fast with the upgrade to CEREC SW 5.2 and creating a finished restoration in five clicks, a crown

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About Dentsply Sirona:

Dentsply Sirona is the world's largest manufacturer of professional dental products and technologies, with over a century of innovation and service to the dental industry and patients worldwide. Dentsply Sirona develops, manufactures, and markets a comprehensive solutions offering including dental and oral health products as well as other consumable medical devices under a strong portfolio of world class brands. Dentsply Sirona's products provide innovative, high-quality and effective solutions to advance patient care and deliver better and safer dental care. Dentsply Sirona's headquarters is located in Charlotte, North Carolina. The company's shares are listed in the United States on NASDAQ under the symbol XRAY.

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made of CEREC MTL Zirconia can be milled out in as little as five minutes in the Super Fast mode of CEREC Primemill. Subsequent sintering in CEREC SpeedFire takes around 18-21 minutes, and the optional glaze firing can be completed after just nine minutes [1]. With conventional cementation as the finishing step, CEREC MTL Zirconia will quickly become the CAD/CAM block of choice for posterior restorations.

The first users of CEREC MTL Zirconia expressed great satisfaction with the new material and praised above all the uncompromising path to remarkable esthetics. "It is very rare for a material and workflow to come along that changes the way you practice. There are things that make you more efficient, but the advent of chairside esthetic zirconia has changed the way I do things in my office" reports Dr. Mike Skramstad from Orono (MN). "CEREC MTL is the pinnacle of what I am looking for in a chairside zirconia. High strength, esthetic, cementable, and low minimal thickness design not only make the execution of the restoration easy, but the efficiency, fit, and workflow has simply changed everything for me."

Comprehensive materials portfolio for CEREC restorations

Dentsply Sirona's block portfolio for CEREC restorations includes glass-ceramics (CEREC Tessera) as well as various zirconium oxide blocks (CEREC Zirconia+) and is now completed by a true multi-talent for restoring teeth in different regions of the mouth.

"With CEREC MTL Zirconia, we are rounding off our CAD/CAM block portfolio of glass-ceramic and zirconia blocks with an esthetic zirconium oxide," explains Mathias Kraus, Vice President Restorative Marketing/Single-Unit Crown at Dentsply Sirona. "In this way, the highest demands of patients in terms of strength and esthetics can be met simultaneously."

CEREC MTL Zirconia is the result of a collaboration between VITA and Dentsply Sirona. "With this innovation, we have succeeded in ideally combining the requirements for maximum esthetics, ease of processing, and familiar strength," explains Bernd Schnakenberg, Head of Global Sales & Marketing at VITA.

While VITA is the designer and producer of this new MTL zirconium oxide block, Dentsply Sirona with Degudent GmbH, Hanau, will be responsible for the exclusive global distribution.

Further information on CEREC MTL Zirconia can be found on the website: <https://www.dentsplysirona.com/en/explore/restorative/cerec-mtl-zirconia.html>

About VITA Zahnfabrik:

As a German manufacturer of dental materials and technologies, the traditional company VITA Zahnfabrik, now in its fourth generation of family management, has been a reliable partner for employees in dental practices and dental laboratories around the world for over 90 years and has been shaping the dental world with its innovative strength ever since. The company headquarters are located in Bad Säckingen (Germany). 700 employees from 20 nations work there in production, research and development, administration and purchasing, as well as sales and marketing. VITA materials and technologies are manufactured to the highest quality in Germany. VITA's incentive is to inspire and support employees in dental practices and laboratories so that patients can be provided with the greatest possible esthetics, functionality and durability. It is no coincidence that the dental materials manufacturer is called Zahnfabrik, because the company's history began with the production of ceramic ready-made teeth. As today, the natural product feldspar was used.

[1] Internal data from Dentsply Sirona

IMAGES

Are available for > [Download](#) on the website.



Fig. 1: MTL Zirconia is especially suitable for indications in which particularly high strength is desired without having to compromise on esthetics.



Fig. 2: CEREC MTL Zirconia restorations can be milled out in the CEREC Primemill in Super Fast mode in as little as about five minutes.



Fig. 3: Polished CEREC MTL Zirconia crown which was glazed in the next step with Dentsply Sirona Universal Glaze High Flu in CEREC SpeedFire.



Fig. 4: Mathias Kraus, Vice President Restorative Marketing/Single-Unit Crown at Dentsply Sirona, sees CEREC MTL Zirconia as rounding off its CAD/CAM block portfolio with an esthetic zirconium oxide.



Fig 5: For Bernd Schnakenberg, Head of Global Sales & Marketing at VITA, the new CAD/CAM block offers an excellent synthesis of esthetics, strength and ease of processing.



Fig 6: Dr. Mike Skramstad: "High strength, esthetic, cementable, and low minimal thickness design have simply changed everything for me."

