

News Release

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FOR IMMEDIATE RELEASE

Celtra[®] Duo Zirconia-reinforced Lithium Silicate (ZLS) Blocks Create New Benchmark in High-Strength Ceramics

With Biaxial Flexural Strength of 560 MPa, Celtra Duo Provides Exceptional Strength, Exquisite Esthetics, and Freedom of Processing

York, PA (February 21, 2018) – Dentsply Sirona, The Dental Solutions Company[®], is pleased to announce that its industry-renowned **Celtra[®] Duo (ZLS)** high-strength glass-ceramic milling blocks continue to set the standard for high-strength, esthetically pleasing restorations. With biaxial flexural strength of 560 MPa when fired, Celtra Duo creates a new level in durable and dependable glass-ceramic restorative materials.

Celtra Duo is in the unique position of bringing together the best of both worlds: strength and esthetics – with patients and clinicians never having to compromise on either. The material's high strength and remarkable esthetics are a direct result of its unique composition. The inclusion of 10% zirconia reinforces the glass matrix without clouding while yielding high flexural strength properties to provide a robust, easily polished block with well-defined margins. Celtra Duo can be conveniently processed with the same milling units used for all-ceramic restorations, including the inLab[®] MC XL and inLab[®] MC X5.

On the topic of processing, Celtra Duo is the first and only CEREC[®] block that can be processed in two ways – either milled and polished, or milled and fired. This dual pathway component renders complete clinician control in determining the appropriate solution to apply for each individual restorative case. Moreover, Celtra Duo can also be processed by dry fire, eliminating the need for glaze. When simply milled and polished only, Celtra Duo achieves a 3-point flexural strength of 210 MPa and a biaxial flexural strength of 413 MPa. If additional

strength is required, Celtra Duo restorations may also be fired, boosting 3-point flexural strength to 370 MPa and biaxial flexural strength to 560 MPa.

For perspective on strength testing, the 3-point flexural strength test utilizes a sample of the material shaped like a bar with two supports, while the biaxial method utilizes a disc sample with a larger surface area and three supports. Therefore, the biaxial test method requires more force to break the sample compared to the 3-point flexural strength method.

With remarkably high strength values when tested using 3-point or biaxial methods, restorations made with Celtra Duo, whether milled and polished, or milled and fired, make it the ideal CEREC material for a wide range of clinical indications including posterior and anterior single-unit crowns, inlays, onlays, and veneers.

For additional information on Celtra Duo, please visit <http://www.celtraduo.com> or call 855.7.CELTRA.

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. As The Dental Solutions Company, Dentsply Sirona's products provide innovative, high-quality and effective solutions to advance patient care and deliver better, safer, and faster dental care. Dentsply Sirona's global headquarters is located in York, Pennsylvania, and the international headquarters is based in Salzburg, Austria. The company's shares are listed in the United States on NASDAQ under the symbol XRAY. Visit www.dentsplysirona.com for more information about Dentsply Sirona and its products.

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