



# Focus on the materials science behind reinforced silicate ceramics for CAD/CAM



## **Prof. Dr. Dipl. Ing. (FH) Bogna**

**Stawarczyk**, M.Sc. studied dental technology (B.Sc.) at the Osnabrück University of Applied Sciences after completing her dental technician training. She completed her studies in 2006 with her Bachelor thesis at the Clinic for Dental Prosthetics at the University of Berne. Later, she completed her Master of Science Dental Technology postgraduate at Danube University Krems (Austria). From 2008 to 2009, she was the Head of Materials Science Research of the Clinic for Fixed and Removable Prosthodontics and Dental Materials Science, University of Zurich (Switzerland). Ms. Stawarczyk completed her doctorate in 2013 and her habilitation in 2015 at the Ludwig-Maximilians-University in Munich, where she was appointed Head of Materials Science Research in 2015 and extracurricular Professor in 2020. Currently, she is also the Vice President European Association of Dental Technology (EADT), gives numerous lectures about modern dental materials and teaches Materials Science at several Dental Technology Master Schools. She has authored over 350 national and international publications. Her research is focused on tooth-coloured materials, their processing techniques and cementation. In addition to applied research, she attaches great importance to fundamental research, the optimization and new development of innovative dental and dental materials and their manufacturing technologies.

## **Fully crystallized lithium disilicate ceramic blocks**

An interview with  
**Prof. Dr. Bogna Stawarczyk, Germany**

With the large number of CAD/CAM ceramics, the differences within material classes are not obvious at first glance. There is a need for knowledge of material science in order to classify the ceramics accordingly, to use them according to the indication and to process them correctly. In this interview, Annett Kieschnick talked to Prof. Dr. Bogna Stawarczyk (Materials Science Research at the Department of Prosthetic Dentistry, LMU Munich), who has dedicated her research to CAD/CAM materials, together with her team. Among other things, the Munich team is nationally and internationally renowned for their groundbreaking work in the field of zirconium oxide and silicate ceramics. The focus of the interview is on lithium disilicates. A recently launched product, Initial LiSi Block (GC), which has some special features, will be discussed.



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