

Media Release

Schaan, Liechtenstein – 16th January 2017

IPS e.max lithium disilicate: 500 MPa for even more confidence and new possibilities

Average biaxial flexural strength of 500 MPa is beneficial to dentists, dental technicians and patients

Since the introduction of IPS e.max, dentists and dental technicians worldwide rely on the highly resistant and highly esthetic lithium disilicate glass ceramic IPS e.max. 11 years of consistent quality tests prove: This ceramic has an average biaxial flexural strength of 500 MPa. Ivoclar Vivadent have adapted their communication accordingly.

Since the introduction of IPS e.max (2005), this all-ceramic material has proven itself to users with excellent results and reliability. More than 100 million restorations and a survival rate of more than 96 percent speak for themselves. However, it's more than just 11 years of success with patients. This is underlined by internal quality tests. Each individual material batch is tested for a large number of material properties to meet the required standards. More than a decade of continuous quality testing has shown that IPS e.max lithium disilicate has an average biaxial strength of 500 MPa, which confirms the high success rates.

Material remains unchanged

The material IPS e.max lithium disilicate remains unchanged. Until now, Ivoclar Vivadent had only disclosed the relevant strength values in minimum values. "Some companies use their highest test results in communication. We operate responsible marketing and therefore primarily publish conservative data to customers in order to provide a safety buffer, for example, if processing instructions are not strictly adhered to," explains Patrik Oehri, Director of R&D Services and Corporate Quality Management at Ivoclar Vivadent. "After decades of success and thousands of produced and tested batches, we will communicate the average strength from now on - like most other manufacturers."

All parties benefit

Thanks to the clinical data, it is possible to reduce the required material thickness for IPS e.max lithium disilicate crowns. A thickness of only 1 millimetre is sufficient when the crowns are adhesively cemented. In addition, minimally invasive occlusal veneers can now also be produced with IPS e.max CAD. This means conservative dentistry is supported. Dentists have even more options of using IPS e.max for minimally invasive restorations.

Furthermore, dental technicians have the assurance that they have made a good choice with IPS e.max. They gain from even greater flexibility when producing highly esthetic restorations. Patients can be happy because the higher strength values mean more natural tooth substance can be preserved.

IPS e.max® is a registered trademark of Ivoclar Vivadent AG.

Caption:

(IPS e.max_500MPa_e.jpg)

Fig. IPS e.max lithium disilicate: Average biaxial flexural strength of 500 MPa.

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