

Media Release

Oerlikon Balzers introduces BALIMED TICANA coating for dental abutments and instruments

Balzers, Liechtenstein, 17 September 2020 – **Oerlikon Balzers, a leading provider of surface solutions, has introduced BALIMED TICANA, a PVD coating specifically designed for dental abutments and instruments that meets the stringent requirements of modern dentistry. The innovative coating is the same colour as human gums, which makes it discreet, and it also offers functional properties that help ensure patients get the very best long-term healthcare. The new BALIMED TICANA coating represents another step forward in Oerlikon Balzers' growth strategy in the medical industry.**

Dental implants using fixed dental prostheses face increasingly strict quality requirements. Applying highly wear-resistant, biocompatible coatings to dental abutment surfaces makes them more versatile and longer-lasting, a key demand in modern dental technology.

BALIMED TICANA gives dental abutments excellent coating properties and has a discreet, natural rosé colour. The TiCN coating is resistant to abrasion and wear and provides a durable surface with a high coating hardness of $H_{IT} [GPa] > 35$, allowing long-lasting fixed dental prostheses and ensuring high stability for crowns.

Based on the patented S3p® technology, the very smooth coating enables fixation of long-lasting implants. BALIMED TICANA has been tested in 25% hydrochloric acid, and after 34 days of immersion the coating had not lost any of its colour. Its corrosion resistance also protects against oral hygiene and offers protection against saliva.

Dental instruments coated with BALIMED TICANA have a hard, highly smooth, chemically stable and autoclavable surface. Colour coding as offered by BALIMED TICANA also makes it easy for dentists and surgeons to identify dental instruments when treating their patients.

Oerlikon Balzers' coating centres in Balzers (Liechtenstein), Brügg (Switzerland), Cluses (France) and Elgin (USA) specialise in coating medical products and are specifically certified to ISO 13485. The entire BALIMED portfolio of coatings meets the highest industry standards.

For more information about the new BALIMED medical coatings visit:

<https://www.oerlikon.com/balzers/balimed/>



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About Oerlikon Balzers

Oerlikon Balzers is one of the world's leading suppliers of surface technologies that significantly improve the performance and durability of precision components as well as tools for the metal and plastics processing industries. Extremely thin and exceptionally hard coatings, marketed under the BALINIT and BALIQ brand names, reduce friction and wear. The BALITHERM brand opens up a broad range of heat treatment services, whereas BALTONE comprises coatings that are available in a full range of elegant colours, perfectly suited for decorative applications. BALIMED ThinFilm coatings, with wear-resistant, biocompatible, antimicrobial and chemically inert properties, have been developed especially for medical applications. Under the BALIFOR technology brand the company has introduced technologies which provide tailor-made solutions for the automotive market, while ePD allows the metallisation of plastic parts with a chrome look.

Worldwide, more than 1'100 coating systems are in operation at Oerlikon Balzers facilities and its customers. Equipment engineering and assembly of Balzers' systems are processed in Liechtenstein, in Langenthal (Switzerland) and in Bergisch Gladbach (Germany). Oerlikon Balzers operates a dynamically growing network of more than 110 coating centres in 36 countries in Europe, the Americas and Asia. Oerlikon Balzers is – together with Oerlikon Metco and Oerlikon AM – part of the Surface Solutions Segment of the Switzerland-based Oerlikon Group (SIX: OERL).