

Media Release**Oerlikon Balzers introduces new coating portfolio to extend service life of sanitary fittings and pumps**

Balzers, Liechtenstein, 12 June 2019 – **Ceramic seal discs in sanitary fittings, pneumatic valves, ceramic shafts and pump bearings as well as components in pumps and compressors are exposed to extreme friction over a long period of time. To keep these devices running reliably for longer, leading surface solutions provider Oerlikon Balzers has developed BALINIT MILUBIA and BALINIT NALUBIA; hydrogen-free hard carbon coatings that protect components against wear from frequent use and at elevated temperatures.**

Both coatings are characterised by very low coefficients of friction, and the low coating temperature means that they can also be applied to heat-sensitive materials.

BALINIT MILUBIA for extreme friction

BALINIT MILUBIA has been specially developed for sealing discs, pneumatic valves, ceramic shafts and pump bearings. The microstructure-based coating provides a hardness of 35 to 40 HIT(GPa). BALINIT MILUBIA is suitable for metals and electrically insulating materials such as ceramics and even plastics. The coating ensures a low operating force on ceramic seal discs even when the assembly grease is washed out after a long period of use, and the low friction keeps the temperature of sealing rings and discs low even when running dry.

BALINIT NALUBIA – even harder with better ductility

Mechanical seals in pumps and compressors use silicon carbide ceramics as seal ring materials. Oerlikon Balzers has introduced BALINIT NALUBIA, which minimises wear in these components by eliminating poor lubricating conditions that cause increased temperatures. BALINIT NALUBIA offers a coating hardness of 40 to 50 HIT(GPa), and improves component ductility. This effective protection against overheating – even under dry running conditions – significantly extends the service life of these devices.

For more information please visit the [BALINIT MILUBIA](#) and [BALINIT NALUBIA](#) websites.



Extended service life: ceramic seal discs in sanitary fittings coated with BALINIT MILUBIA ensure a low operating force even when assembly grease is washed out after a long period of use.

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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 100 coating centres in 35 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).