

Press release

Oerlikon Balzers announces BALINIT TURBINE PRO, the coating solution for turbine blades

Balzers, Liechtenstein, 22 December 2017 – Oerlikon Balzers launches BALINIT TURBINE PRO, an outstanding corrosion and erosion resistant family of coatings for industrial gas, steam and aerospace turbines; that increase the components' lifetime, enhance productivity and reduce costs.

Oerlikon Balzers developed the BALINIT TURBINE PRO coatings specifically for turbine blades. The coatings provide an optimal relation of the highest hardness to residual compressive stress. BALINIT TURBINE PRO protects turbine components from corrosion and erosion, reduces damage and repair costs, protects surface finishes and prevents down time. It offers outstanding protection from solid particle erosion (SPE) and liquid droplet erosion (LDE) without affecting the components' fatigue life. It also provides the maximum lifetime erosion resistance.

BALINIT TURBINE PRO is used on industrial gas turbine compressor blades and vanes as well as on steam turbine high pressure (HP), intermediate pressure (IP) and low pressure (LP) section blades. The BALINIT TURBINE PRO family of coatings can be applied to large sized blades and can produce excellent mirror surface finishes down to <0.1 Ra µm.

The Oerlikon Balzers team of experts individually adapt the coating solution to meet customers' individual requirements for erosion, oxidation and corrosion protection.

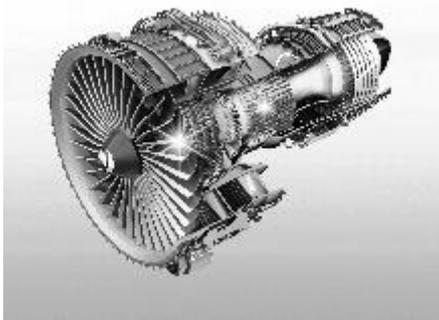
Tests have shown that BALINIT TURBINE PRO exceeds all other coatings tested for erosion resistance. It is 40 x more erosion resistant than steel and 5 x more erosion resistant than other PVD coating solutions. The environmentally friendly coating technology contributes to the overall efficiency improvements required for turbines. It reduces operating costs, extends service intervals and protects valuable components from all types of wear.

"Coatings are an indispensable element to reach the ambitious goals that have been set by the aerospace and power generation market segments," says Marc Desrayaud, Head of Oerlikon Balzers Industrial Solutions. "With BALINIT TURBINE PRO, an innovative product that was developed in close co-operation with industry partners, we can offer a family of coatings that offers the highest level of erosion and corrosion resistance for compressor blades".

More information is available on the website at www.oerlikon.com/balzers/



BALINIT TURBINE PRO – an outstanding corrosion and extremely hard erosion resistant family of coatings



The innovative coating solution to protect your blades against corrosion.

For further information, please contact:

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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. Under the technology brand BALIFOR, the company develops the technologies for tailor-made solutions for the automotive market, and ePD delivers solutions for the metallisation of plastic parts with chrome effects.

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 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 - part of the Surface Solutions Segment of the Switzerland-based Oerlikon Group (SIX: OERL).

About the Surface Solutions Segment

The Surface Solutions Segment of the Oerlikon Group includes the two brands Oerlikon Balzers and Oerlikon Metco.

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Oerlikon Metco enhances surfaces with coating solutions and equipment. Customers benefit from a uniquely broad range of surface technologies, coating solutions, equipment, materials, services, and specialized machining services and components. The innovative solutions improve performance and increase efficiency and reliability. As innovation leader, Oerlikon Metco is forging new paths with materials for additive manufacturing (AM). Oerlikon Metco serves industries such as power generation, aviation, automotive, and other specialized markets. The **Surface Solutions Segment** operates a dynamically growing network of currently more than 145 facilities with over 140 coating centres in 37 countries in Europe, the Americas, Asia and Australia, employing more than 6'000 people. The Surface Solutions Segment is part of the Switzerland-based Oerlikon Group (SIX: OERL).