

ONS 2024: Performance and durability with Stellite® alloys Deloro Wear Solutions presents robust materials for the demanding oil and gas industry

The oil and gas industry operates under extreme conditions in some regions of the world – and the demands placed on materials science are correspondingly high. Deloro Wear Solutions GmbH is familiar with the diverse requirements and will be presenting its robust Stellite® materials for these demanding areas of application, which can withstand wear, corrosion, temperature and pressure fluctuations as well as mechanical stress, at Offshore Northern Seas (ONS) from 26 to 29 August 2024 in Stavanger, Norway.

As one of the world's leading suppliers of metallic wear protection, cast components and component finishes, Deloro Wear Solutions offers Stellite® alloys that fulfil all the requirements of the oil and gas industry. The cobalt-, nickel- or iron-based alloys have superior performance and durability compared to many types of steel – even under extreme operating conditions. In the oil and gas industry, Stellite® alloys are suitable for both upstream and downstream applications.

Stellite® components for demanding environments

In the upstream sector, which includes the search, exploration and production of natural gas and crude oil, the constant rotation during the drilling process results in mechanical wear, high pressures and intense heat development. At the same time, water, sludge or sand lead to abrasion and corrosion – an enormous load spectrum that the components have to withstand. Thanks to their all-round properties, Stellite® components and coatings are considered the ideal standard for wear resistance applications in the oil and gas extraction sector, which have to withstand drilling fluids

containing sand, for example. Cobalt-based materials are the ideal choice for measuring-while-drilling and logging-while-drilling technologies, which record measurement results directly during the drilling process and send them to the operator, as they are non-magnetic and do not influence measurement results in addition to their wear-protective properties. Deloro also offers engineering and manufacturing services that produce rotors, stators, impellers, turbine sleeves and drill heads for this sector.

The downstream sector, which is dedicated to the refining, processing and marketing of crude oil and natural gas products, also places high demands on materials science. Deloro's manufacturing portfolio includes primary moulding and coating processes for the production of pump and valve parts to customer specifications. Cast and coated components made of Stellite® extend the service life of critical control and pump systems. Metallic seals are particularly well proven, as they are significantly more wear-resistant than other materials such as plastic. Deloro offers these for various valves such as gate valves, needle valves and butterfly valves.

Participants can find out more about Deloro's product portfolio for the oil and gas industry at this year's ONS in Norway or online at <https://www.deloro.com/industries/energy-environment/oil-gas/>.

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Caption:

Image 1: Stellite® components withstand wear, corrosion, temperature and pressure fluctuations as well as mechanical stress, making them ideal for the demanding applications in the oil and gas industry.



About Deloro Wear Solutions GmbH

AT THE CORE OF EVERY CRITICAL PROCESS - this is what Deloro Wear Solutions GmbH stands for. The company is a world's leading supplier of metallic wear solutions. Deloro Wear Solutions, with more than 300 employees, has been based in Koblenz since 1972 and, together with two other sites in Italy, Bellusco and Milan, is part of the Deloro Group. The alloys produced by Deloro, such as Stellite®, set the standard for wear-resistant components and coatings in numerous industries. The company can draw on over 100 years of expertise in metallurgy and process technology. The one-stop-shop supplier offers customised solutions for critical surfaces that are subject to mechanical, corrosive or heat-related wear using casting and welding technologies. From alloy development to mechanical finishing, the company covers the entire component manufacturing process. With additional expertise in mechanical engineering, Deloro Wear Solutions develops customised plant systems for deposition welding, from planning to commissioning. The portfolio is complemented by wear-resistant metal powders and welding consumables. Its materials expertise and wide-ranging process know-how make Deloro a hidden champion when it comes to production technology.

More information

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