



böhlerwelding
by voestalpine

Böhler 1% nickel-alloyed arc welding consumables

A full range for demanding fabrication

EWG

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voestalpine

ONE STEP AHEAD.

Lasting Connections



Creating lasting connections is the most important part of the welding process. Böhler Welding offers a globally unique product portfolio for all conventional arc welding processes and our best-in-class welding consumables ensure these lasting connections – even in the most challenging applications and industries. These merits are equally valid for our complete range of 1% Ni-alloyed welding consumables for demanding applications, covering all commonly applied arc welding processes. The all-weld metal Ni-content is kept below 1% to ensure conformance with the NACE MR0175 requirement for SSC safe service in sour environments in oil and gas exploration and processing. Packed with decades of application experience, these welding consumables are designed to bring you productivity, weld quality and – above all – security.

Designed for demanding industries

Böhler 1%Ni consumables are designed to meet welding challenges in oil and gas exploration and other demanding industries – often coming with combined requirements for increased strength, low-temperature toughness and sulphide stress corrosion (SSC) resistance.

All products feature an all-weld metal Ni-content with less than 1%Ni to ensure conformance with the NACE MR0175 requirement for SSC safe service in sour environments in oil and gas exploration.

Steels with elevated yield strength levels up to 550 MPa can be welded, meeting Charpy V-Notch demands down to -60°C, both in the as welded and stress relieved condition.

Our range of products is CTOD tested and/or approved in HIC and SSC tests according to NACE standards.

The product range covers the commonly applied arc welding processes MMA, MAG, TIG, FCAW and SAW.

Appreciated by fabricators

Böhler 1%Ni consumables have a proven track record in the oil and gas exploration industry where they are widely applied in the welding of jackets and topsides of offshore platforms, piping and flow lines between rigs and to onshore terminals.

Another area are jackets for offshore wind turbines. Outside the offshore industry, products are used in demanding shipbuilding and civil constructions such as bridges where better than normal low-temperature impact toughness is required.

Users appreciate the excellent weldability of the products making their welding – as a necessary step in production – productive and efficient, while bringing sound welds with required mechanical properties.

For hydrogen critical applications

All Böhler 1%Ni welding consumables are very low-hydrogen types falling in the EN H5 and AWS H4 hydrogen classes.

They offer the best protection against hydrogen induced cracking you can possibly get from filler metals for the various welding processes.

Stick electrode coatings and fluxes are low moisture absorbing types with delayed pick-up during exposure to the atmosphere outside their protective packaging.

State-of-the-art in FCAW are seamless cored wires with a closed wire design, blocking any moisture reabsorption – even during unprotected exposure, out of the packaging at the work station.

Packaging systems for the various low-hydrogen consumables are designed to provide easy and cost-efficient storage and handling, and superb protection against moisture reabsorption until the moment of welding.



Moisture proof packaging system

Moisture proof packaging systems are available for absolute protection against moisture reabsorption, during storage and handling of Böhler 1%Ni low-hydrogen welding consumables. They guarantee the availability of "factory dry" products until the moment of welding when the packaging is opened.

Description	Picture	
<p>MMA Stick electrodes</p> <p>Standard packaging</p> <p>Moisture proof packaging</p> <ul style="list-style-type: none"> ■ Vacuum packed in various quantities ■ Air tight tins 		
<p>MAG Solid wires</p> <p>Standard moisture protective packaging</p> <p>Moisture protective PE bag with silicagel bag</p>		
<p>TIG TIG rods</p> <p>Standard packaging</p> <p>Moisture proof packaging</p> <p>Sealed cylinders</p>		
<p>FCAW Cored wires</p> <p>Standard moisture protective packaging</p> <p>PE bag with silicagel bag for seamless cored wires</p> <p>Vacuum sealed aluminium foil for folded cored wires</p>		
<p>SAW Fluxes</p> <p>Standard packaging</p> <p>Moisture proof packaging</p> <p>Sealed drums</p>		
<p>SAW Wires</p> <p>Standard packaging</p> <p>Moisture proof packaging</p>		



voestalpine Böhler Welding

Böhler Welding know-how joins steel

Customers in over 120 countries join the expertise of voestalpine Böhler Welding. Focused on filler metals, voestalpine Böhler Welding offers extensive technical consultation and individual solutions for industrial welding and soldering applications. Customer proximity is guaranteed by 40 subsidiaries in 28 countries, with the support of 2,200 employees, and through more than 1,000 distribution partners worldwide. voestalpine Böhler Welding offers three specialized and dedicated brands to cater our customers' and partners' requirements.



Böhler Welding – More than 2,000 products for joint welding in all conventional arc welding processes are united in a product portfolio that is unique throughout the world. Creating lasting connections is the brand's philosophy in welding and between people.



UTP Maintenance – Decades of industry experience and application know-how in the areas of repair as well as wear and surface protection, combined with innovative and custom-tailored products, guarantee customers an increase in the productivity and protection of their components.



Fontargen Brazing – Through deep insight into processing methods and ways of application, Fontargen Brazing provides the best brazing and soldering solutions based on proven products with German technology. The expertise of this brand's application engineers has been formulated over many years of experience from countless application cases.

forwarded by:

Böhler Welding

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