utp maintenance
by voestalpine

Tailor-Made Protectivity™ Solutions for the Railway Industry

voestalpine Böhler Welding
www.voestalpine.com/welding

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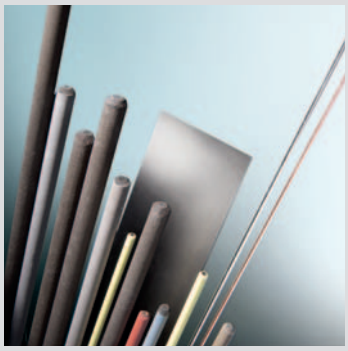
ONE STEP AHEAD.

UTP Maintenance

Tailor-Made Protectivity™

High-quality industrial-use welding filler metals for maintenance, repair, and overlay welding. By adding the UTP and Soudokay brands to the voestalpine Böhler Welding brand network, the UTP Maintenance can look back on a proud history spanning 60 years as an innovative supplier of welding technology products. UTP Maintenance is the global leader in the repair, maintenance, and overlay welding segment.

With roots both in Bad Krozingen (Germany) and Seneffe (Belgium), UTP Maintenance offers the world's most unique product portfolio for filler metals from its own production facilities. The Soudokay brand was established back in 1938, while the UTP brand began operations in 1953. Each of these brands therefore respectively look back on a long history of international dimension.



By merging into the UTP Maintenance brand, the collective know-how of both brands – gathered over decades in the fields of metallurgy, service, and applications engineering – is now united under one umbrella. As a result, a truly unique portfolio of solutions for welding applications has been created in the fields of repair, maintenance, and overlay welding.

Switches
SK 218-O
SK 14 Mn-O
SK AP-O
UTP CHRONOS
UTP 7200
UTP BMC

Rails	
SK 242-O	UTP DUR 250
SK BU-O	UTP DUR 300
SK 232-O	UTP DUR 350
SK 309L-O	UTP 614 Kb
SK 402-O	UTP 630
SK 402-G	
SOUDOTAPE 309L + RECORD EST 307	

	FCAW STRIP ESW	Hardness	Description
Switches	SK 218-O	As welded: approx. 200 HB After work hardening: up to 450 HB	Maintenance of austenitic manganese castings
	SK 14 Mn-O	As welded: approx. 195 HB	Rebuilding of 14 % manganese steel parts.
	SK AP-O	As welded: approx. 205 HB After work hardening: up to 525 HB	Rebuilding and joining of carbon and 14 % manganese steels, buffer layer prior to deposit hard overlay, hard facing of castings and rails either, welding castings to rails
Rails	SK 242-O	As welded: approx. 40 HRC	Maintenance and hardfacing of underground rails, wheels rebuilding
	SK BU-O	As welded: approx. 280 HB	Rebuilding alloy for Carbon steel parts. Can also be used as buffer layer prior to hard overlay.
	SK 232-O	As welded: approx. 170 HB	Maintenance and hardfacing of underground rails, wheels rebuilding
	SK 309L-O	As welded: approx. 170 HB	Corrosion resistant overlays on rail heads submitted to corrosive action, repair, surfacing or welding of rails or austenitic manganese casting either. Switch blades rebuilding, rust resisting deposit for tract circuiting.
	SK 402-O	As welded: approx. 160 HB	Repair, surfacing or welding of rails or austenitic manganese casting either. Switch blades rebuilding, rust resisting deposit for tract circuiting.
	SK 402-G	As welded: approx. 170 HB	Austenitic alloy type CrNiMn designed for joining dissimilar metals and for buffer layer deposits prior to hard surfacing.
	SOUDOTAPE 309L + RECORD EST 307	–	Top rail corrosion resistant overlaying in a single layer using electroslag stripcladding at high deposition rates

	SMAW	Hardness	Description
Switches	UTP CHRONOS	As welded: approx. 220 HB After work hardening: up to 550 HB	Welding consumable suitable for buildups on high Mn-steel of the same and of similar nature and on C-steels.
	UTP 7200	As welded: approx. 200 – 250 HB After work hardening: 48 – 53 HRC	Basic coated, CrNi alloyed Mn hard-steel stick electrode for joining and surfacing against extreme impact, compression and shock.
	UTP BMC	As welded: approx. 260 HB After work hardening: 48 – 53 HRC	Welding consumable designed for buildups on parts made of high Mn-steel subject to high compression and impact in combination with abrasion.
Rails	UTP DUR 250	As welded: approx. 270 HB 1 layer on steel with C = 0.5 % approx. 320 HB	Basic coated stick electrode for tough, easily machinable buildups.
	UTP DUR 300	As welded: approx. 300 HB 1 layer on steel with C = 0.5 % approx. 350 HB	Basic coated stick electrode for wear resistant surfaces on low alloyed steel parts.
	UTP DUR 350	As welded: approx. 300 HB 1 layer on steel with C = 0.5 % approx. 420 HB	Basic coated electrode for wear resistant surfaces on carbon low alloyed steel parts.
	UTP 614 Kb	–	Double coated stick electrode for highly stressed joints. Particularly suited for rail joint welds.
	UTP 630	As welded: approx. 200 HB After work hardening: up to 350 HB	Fully austenitic welding electrode for buffer layers and crack resistant joints.

Legend: O: open arc, G: gas shielded, A: solid rods & wires (GTAW/GMAW), no letter: stick electrodes

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voestalpine Böhler Welding

Welding know-how joins steel

Customers in over 120 countries join the expertise of voestalpine Böhler Welding (formerly the Böhler Welding Group). 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:

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