

DUPLEX AND SUPER DUPLEX STAINLESS STEELS

Application Segments

Oil & Gas/CPI

Available Product Variants

Long Products* Semi-Finished Products / Billet

*) Presented data refer exclusively to long products. Please observe the detailed explanations at the end of the data sheet (pdf).

Product Description

BÖHLER A930 is a stainless ferritic-austenitic steel of the 25%Cr type. Highest corrosion resistance and good strength properties. Good weldability, heat treatment after welding is not required.

Excellent resistance to general corrosion, stress corrosion cracking, vibration cracking, pitting and crevice corrosion as well as erosion corrosion.

Max. operating temperature for long-term use: 280°C (short-term exceeding up to 300°C permissible). Required surface finish:pickled or machined.

BÖHLER A930 (UNS S32550, 1.4507, F61) is the original super duplex stainless steel. As such, it was the first alloy to be called "super duplex" and is based on a chromium content of 25 %. Compared to the later alternatives UNS S32750 and UNS S 32760, it is the only grade with an increased copper content for better pitting corrosion resistance.

Components in offshore, waste water, seawater desalination and chemical plants with aggressive chloride-containing media, e.g. heat exchangers, separator parts, compressor and pump components, turbine blades.

Process Melting

Airmelted

Applications

- > Comp. for Chemical plants (incl. LNG, FGD, Urea, LDPE, etc.)
- > Consumer Goods General
- > Flowlines & Connectors
- > Oil & Gas
- > Pumps and High Pressure Components
- > Well Completion Tools

- > Components for Recycling Industry
- > CPI (incl. LNG, Urea)
- > Food processing Industry
- > Other Components
- > Tubular Products, Flanges, Fittings
- Wellhead, X-mas trees and Manifolds (incl. Tubing hangers), BOPs
- > Comps. for Food processing and Animal Feed
- > Fasteners, Bolts, Nuts
- > Mechanical Engineering
- > Other Oil and Gas + CPI comps.
- > Valves and Actuators





Technical data

Material designation		Standards	
F51	Market grade	10088-3	en iso
1.4507	SEL	A276/A276M	
X2CrNiMoCuN25-6-3	EN	A182/A182M	ASTM
S32550	UNS	A479/A479M	

Chemical composition (wt. %)

С	Si	Mn	Ρ	S	Cr	Мо	Ni	Cu	Ν
max. 0.04	max. 1.00	max. 1.50	max. 0.040	max. 0.030	24.0 to 27.0	2.9 to 3.9	4.5 to 6.5	1.50 to 2.50	0.10 to 0.25

Refers to ASTM A479 - UNS32550.

Delivery condition

Solution Annealed + Quenched	
Hardness (HB)	max. 297
Tensile Strength (MPa ksi)	min. 760 111
Yield Strength (MPa ksi)	min. 550 80

Round Bars and Wire Rod (if any)

Diameter*						
	mm		inch			
ROLLED						
5.00	-	13.50	0.197	-	0.531	
12.50	-	130.00	0.492	-	5.118	
FORGED						
130.10	-	304.80	5.122	-	12.000	

* Diameter 5.00 - 13.50 mm available as Wire Rod.

Diameter 12.5 - 130 mm round bars.

More information regarding MOQ, lengths and tolerances upon request. Flat bars on request.

Long Products: For additional specifications, technical requirements, and other dimensions, please contact our regional voestalpine BÖHLER sales companies.

Semi-Finished Products: Product Variant may differ in terms of melting process, technical data, delivery, and surface condition as well as available product dimensions. Please contact the business unit Semi Finished Products of voestalpine BOHLER Edelstahl GmbH & Co KG.

The data contained in this brochure is merely for general information and therefore shall not be binding on the company. We may be bound only through a contract explicitly stipulating such data as binding. Measurement data are laboratory values and can deviate from practical analyses. The manufacture of our products does not involve the use of substances detrimental to health or to the ozone layer.

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