CORROSION-RESISTANT STEELS - FERRITIC-AUSTENITIC (DUPLEX) 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

- Components for Chemical plants (incl. LNG, FGD, Urea, LDPE, etc.)
- CPI (incl. LNG, Urea)
- Food processing industry
- Other Oil and Gas + CPI components
- Valves and Actuators
- Oil & Gas, CPI & Renewables
- Components for the recycling industry
- Fasteners, Bolts, Nuts
- Oil & Gas / CPI
- Pumps and High Pressure Components
- Well Completion Tools
- Well Logging Tools
- Components for food processing and animal feed
- Flowlines & Connectors
- Other Components
- Tubular Products, Flanges, Fittings
- Wellhead, X-mas trees and Manifolds (incl. Tubing hangers), BOPs

Technical data

Material designation	
F61	Market grade
1.4507	SEL
X2CrNiMoCuN25-6-3	EN
S32550	UNS

Standards	
10088-3	EN ISO
A276/A276M A182/A182M A479/A479M	ASTM

Chemical composition (wt. %)

C	Si	Mn	P	S	Cr	Mo	Ni	Cu	N
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)	min. 760
Yield Strength (MPa)	min. 550

Round Bars and Wire Rod (if any)

Diameter* mm		
ROLLED		
5.00	-	13.50
12.50	-	130.00
FORGED		
130.10	-	304.80

* 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.

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