CORROSION-RESISTANT STEELS - FERRITIC-AUSTENITIC (DUPLEX) STEELS

Application Segments

Oil & Gas/CPI

Available Product Variants

Long Products* | Semi-Finished Products / Billet | Plates

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

Product Description

Bohler A913 (UNS S32750) is the most widely used super duplex grade on the market and is a 25%Cr ferritic-austenitic stainless steel with PREN min 41.
The steel offers highest corrosion resistance and good strength properties and is especially suitable for use in aggressive environments containing chlorides.
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.
Components exposed to seawater such as heat exchangers, feed or injection pumps, propeller shafts, highly stressed parts in chemical and waste water plants and for oil and gas production (e.g. manifolds), separators, turbine and fan blades, low-pressure compressor components.

Process Melting

Airmelted

Applications

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

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CORROSION-RESISTANT STEELS - FERRITIC-AUSTENITIC (DUPLEX) STEELS

BÖHLER A913

Technical data

Material designation	
1.4410	SEL
X2CrNiMoN25-7-4	EN
S32750	UNS

Standards	
10088-3	EN ISO
A182/A182M	ASTM
A276/A276M	
A479/A479M	
MDS D57	NORSOK

Chemical composition (wt. %)

C	Si	Mn	P	S	Cr	Mo	Ni	Cu	N
max. 0.030	max. 0.80	max. 1.20	max. 0.035	max. 0.020	24.0 to 26.0	3.0 to 5.0	6.0 to 8.0	max. 0.50	0.24 to 0.32

Refers to NORSOK M630 MDS D57 - UNS 32750 | PREN = % Cr + 3.3 x % Mo + 16 x % N min 41.

Delivery condition

Solution Annealed + Quenched	
Hardness (HB)	max. 310 | hot finished or cold finished / up to 50.8 mm Diameter
Tensile Strength (MPa)	min. 800 | hot finished or cold finished / up to 50.8 mm Diameter
Yield Strength (MPa)	min. 550 | hot finished or cold finished / up to 50.8 mm Diameter

Solution Annealed + Quenched	
Hardness (HB)	max. 310 | hot finished or cold finished / over 50.8 mm Diameter
Tensile Strength (MPa)	min. 760 | hot finished or cold finished / over 50.8 mm Diameter
Yield Strength (MPa)	min. 515 | hot finished or cold finished / over 50.8 mm Diameter

Round Bars and Wire Rod (if any)

Diameter* mm		
ROLLED		
5.00	-	13.50
12.50	-	130.00
FORGED		
130.10	-	200.00

* 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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voestalpine
ONE STEP AHEAD.