

# ACIERS INOXYDABLES DUPLEX ET SUPER DUPLEX

## Segment d'application

Oil & Gas/CPI

## Variantes de produits disponibles

Produit long\*

Produit semi-fini

Tôle

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

## Description du produit

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.

## Procédé d'élaboration

Airmelted

## Applications

- > Composants pour l'industrie chimique (LNG, FGD, Urée, LDPE...)
- > Chimie et pétrochimie (dont LNG, urée)
- > Conduites et raccords
- > Industrie pétrolière et gazière
- > Pompes et composants haute pression
- > Outils pour la réalisation de puits
- > Composants pour l'industrie agro-alimentaire
- > Outils de perçage et composants
- > Industrie agro-alimentaire
- > Autres composants
- > Tubes, brides et raccords
- > Outils pour carottage
- > Bien de consommation - en général
- > Eléments de fixation, vis et écrous
- > Mécanique générale / machines-outils
- > Autres composants pour l'industrie pétrolière, gazière et chimique
- > Valves et actionneurs
- > Tête de forage / BOPs / bloc collecteur

## Données techniques

Désignation normalisée		Normes	
1.4410	SEL	10088-3	EN ISO
X2CrNiMoN25-7-4	EN	A182/A182M	ASTM
S32750	UNS	A276/A276M	
		A479/A479M	
		MDS D57	NORSOK

## Composition chimique

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 jusqu'à 26,0	3,0 jusqu'à 5,0	6,0 jusqu'à 8,0	max. 0,50	0,24 jusqu'à 0,32

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

## Condition de livraison

### Recuit de mise en solution + trempe

Dureté (HB)	max. 310   hot finished or cold finished / up to 50.8 mm Diameter
Résistance à la traction (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

### Recuit de mise en solution + trempe

Dureté (HB)	max. 310   hot finished or cold finished / over 50.8 mm Diameter
Résistance à la traction (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

## Barres rondes et fil machine (le cas échéant)

Diamètre*		mm	
<b>CERCLE</b>			
5,00	-	13,50	
12,50	-	130,00	
<b>FORMÉ</b>			
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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**Long Products:** For additional specifications, technical requirements, and other dimensions, please contact our regional voestalpine BÖHLER sales companies.

**Sheet & Plates:** Product Variant may differ in terms of melting process, technical data, delivery, and surface condition as well as available product dimensions. Please contact voestalpine BÖHLER Bleche GmbH & Co KG.

**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 BÖHLER 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.*