

# DUPLEX EN SUPER DUPLEX ROESTVAST STAAL

## Application Segments

Oil & Gas/CPI

## Beschikbare uitvoeringen

Stafstaal\*

Halfafgewerkte producten / billet

Plaat

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

## Product omschrijving

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.

## Smeltroute

Airmelted

## Toepassingen

- > Comp. voor chemische fabrieken (incl. LNG, FGD, Urea, LDPE enz.)
- > CPI (incl. LNG, Urea) (nl)
- > Stroomlijnen en connectoren
- > Olie en gas
- > Pompen en hogedrukonderdelen
- > Gereedschap voor putafwerking
- > Comp. voor verwerking van levensmiddelen en diervoeders
- > Boorgereedschap en comp.
- > Levensmiddelenindustrie
- > Andere componenten
- > Buisproducten, flenzen, fittingen
- > Gereedschap voor het meten van putten
- > Consumptiegoederen - Algemeen
- > Bevestigingsmiddelen, bouten en moeren
- > Werktuigbouw / machinebouw Algemeen
- > Andere comp. olie en gas + chemie
- > Afsluiters en actuatoren
- > Wellhead, X-mas trees en Manifolds (incl. Tubing hangers), BOPs (nl)

## Technische gegevens

Materiaal aanduiding		Normen	
1.4410	SEL	10088-3	EN ISO
X2CrNiMoN25-7-4	EN	A182/A182M	ASTM
S32750	UNS	A276/A276M	
		A479/A479M	
		MDS D57	NORSOK

## Chemische samenstelling

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 naar 26,0	3,0 naar 5,0	6,0 naar 8,0	max. 0,50	0,24 naar 0,32

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

## Leveringsconditie

### Solution Annealed + Quenched

Hardheid (HB)	max. 310   hot finished or cold finished / up to 50.8 mm Diameter
Treksterkte (MPa)	min. 800   hot finished or cold finished / up to 50.8 mm Diameter
Opbrengtsterkte (MPa)	min. 550   hot finished or cold finished / up to 50.8 mm Diameter

### Solution Annealed + Quenched

Hardheid (HB)	max. 310   hot finished or cold finished / over 50.8 mm Diameter
Treksterkte (MPa)	min. 760   hot finished or cold finished / over 50.8 mm Diameter
Opbrengtsterkte (MPa)	min. 515   hot finished or cold finished / over 50.8 mm Diameter

## Ronde staven

Diameter*		mm	
<b>GEROLD</b>			
5,00	-	13,50	
12,50	-	130,00	
<b>GESMOORDE</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.

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