

# ACEROS INOXIDABLES DÚPLEX Y SÚPER DÚPLEX

## Application Segments

Oil & Gas/CPI

## Formatos disponibles

Productos largos\*

Productos semielaborados / en palanquilla

Chapas

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

## Descripción

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.

## Método de obtención

Convencional

## Aplicaciones

- > Componentes para plantas químicas (incl. GNL, FGD, urea, PEBD, etc..)
- > CPI (incl. LNG, urea) (es)
- > Tuberías y conectores
- > Gas y petróleo
- > Bombas y componentes para alta presión
- > Herramientas de terminación de pozos
- > Componentes para el procesamiento de alimentos y piensos
- > Herramientas y componentes para perforación
- > Industria de procesado de alimentos
- > Otros componentes
- > Productos tubulares, bridas, accesorios
- > Herramientas de excavación de pozos
- > Bienes de consumo - en general
- > Elementos de sujeción, tornillos y tuercas
- > Ingeniería mecánica / construcción de maquinaria en general
- > Otros componentes de CPI, gas y petróleo
- > Válvulas y actuadores
- > Bocas de pozo, árboles de navidad y colectores (incl. colgadores de tuberías), BOP

## Datos técnicos

| Designación     |     | Estándares |        |
|-----------------|-----|------------|--------|
| 1.4410          | SEL | 10088-3    | EN ISO |
| X2CrNiMoN25-7-4 | EN  | A182/A182M | ASTM   |
| S32750          | UNS | A276/A276M |        |
|                 |     | A479/A479M |        |
|                 |     | MDS D57    | NORSOK |

## Composición Química

| C          | Si        | Mn        | P          | S          | Cr          | Mo        | Ni        | Cu        | N           |
|------------|-----------|-----------|------------|------------|-------------|-----------|-----------|-----------|-------------|
| máx. 0,030 | máx. 0,80 | máx. 1,20 | máx. 0,035 | máx. 0,020 | 24,0 a 26,0 | 3,0 a 5,0 | 6,0 a 8,0 | máx. 0,50 | 0,24 a 0,32 |

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

## Estado de suministro

### Solution Annealed + Quenched

|                                 |   |
|---------------------------------|---|
| Dureza (HB)                     | máx. 310   hot finished or cold finished / up to 50.8 mm Diameter |
| Resistencia a la tracción (MPa) | mín. 800   hot finished or cold finished / up to 50.8 mm Diameter |
| Resistencia a la cesión (MPa)   | mín. 550   hot finished or cold finished / up to 50.8 mm Diameter |

### Solution Annealed + Quenched

|                                 |  |
|---------------------------------|--|
| Dureza (HB)                     | máx. 310   hot finished or cold finished / over 50.8 mm Diameter |
| Resistencia a la tracción (MPa) | mín. 760   hot finished or cold finished / over 50.8 mm Diameter |
| Resistencia a la cesión (MPa)   | mín. 515   hot finished or cold finished / over 50.8 mm Diameter |

## Barras redondas

| Diámetro* |   |        |
|-----------|---|--------|
| mm        |   |        |
| FORZADO   |   |        |
| 5,00      | - | 13,50  |
| 12,50     | - | 130,00 |
| FORJADO   |   |        |
| 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.

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