

ACEROS RESISTENTES A LA FLUENCIA

Application Segments

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|---------------------|
| Land Based Turbines |
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Formatos disponibles

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

Descripción

This specification covers a corrosion and heat resistant steel in the form of bars, wire, forgings and forging stock. It is an austenitic, precipitation hardenable, iron-nickel-chromium-molybdenum-titanium steel of ESR quality. Alloying elements of aluminium and titanium allow this material to undergo precipitation hardening (ageing) through the formation of intermetallic phases. The addition of molybdenum increases the mechanical properties and resistance to creep at high temperatures. These products have been typically used for parts in power generation engineering i.e. gas turbines requiring moderate strength up to 704 °C (1300 °F) and oxidation resistance up to 816 °C (1500 °F), but their use is not limited to such applications.

Método de obtención

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| Airmelted + ESR |
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Aplicaciones

- > Ingeniería mecánica / construcción de maquinaria en general
- > Otros componentes de automoción (turbocompresores, anillos de pistones, sensores, etc.)
- > Otros componentes para generación de energía
- > Generación de energía (gas/vapor/nuclear)
- > Cuchillas, ejes de turbinas y compresores

Datos técnicos

| Designación | | Estándares | |
|---------------------|--------------|---------------|--------|
| Alloy 286 | Market grade | VdTÜV WB435/3 | Others |
| 1.4980 | SEL | | |
| X6NiCrTiMoVB25-15-2 | EN | | |
| S66286 | UNS | | |

Composición Química

| C | Si | Mn | P | S | Cr | Mo | Ni | V | Ti | B |
|---------------|---------------|---------------|---------------|---------------|--------------------|------------------|--------------------|------------------|------------------|------------------|
| máx. 0,080 | máx. 1,000 | máx. 2,000 | máx. 0,030 | máx. 0,030 | 13,500 a 16,000 | 1,000 a 1,500 | 24,000 a 27,000 | 0,100 a 0,500 | 1,900 a 2,300 | 0,003 a 0,010 |

Refers to VdTÜV 435/3

Estado de suministro

Solution annealed + precipitation hardened

| | |
|---------------------------------|-------------|
| Resistencia a la tracción (MPa) | 900 a 1.200 |
| Resistencia a la cesión (MPa) | mín. 600 |

Barras redondas

| Diámetro mm | |
|----------------|------------|
| FORZADO | |
| 12,50 | - 130,00 |
| FORJADO | |
| 130,10 | - 254,00 |

More information regarding MOQ, lengths and tolerances upon request. Flat bar on request.

Long Products: For additional specifications, technical requirements, and other dimensions, please contact our regional voestalpine BÖHLER sales companies.

Open Die Forgings: 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 Open Die Forgings 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.