

ACEROS AUSTENÍTICOS

Application Segments

Oil & Gas/CPI

Formatos disponibles

Productos largos*

Productos semielaborados / en palanquilla

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

Descripción

BÖHLER P513 is a weldable, non-magnetic austenitic stainless steel with resistance to seawater and intergranular corrosion. Does not require post-weld heat treatment. It offers best galling resistance of all stainless steels and high pitting resistance. The oxidation resistance of BÖHLER P513 is far superior to common Cr-Ni austenitic stainless steels (Type 304) but not quite as good as for Cr-Ni-Mo Types (316), but it offers better chloride pitting resistance, stress corrosion cracking resistance and crevice corrosion resistance than Type 316 under standard testing conditions.

BÖHLER P513 is a high Silicon, high Manganese, Nitrogen strengthened austenitic stainless alloy that was originally designed as a temperature alloy and therefore performs well at high temperature around 1800°F. The additions of silicon and manganese assist to inhibit wear, galling and fretting even in the annealed condition. Through cold working BÖHLER P513, it is possible to attain higher strengths, however it does not enhance the anti-galling properties

It is used in the Aerospace, Food and Drug, Oil Field, Petrochemical, Surgical and Chemical Processing Industries for e.g. Valve Stems, Seats and Trim, Fastening Systems, Screening, Chain-drive Systems, Pins, Bushings and Roller Bearings, Pump Components (Wear Rings and Lobes), Food-Contact applications.

Método de obtención

Convencional

Aplicaciones

- > Componentes para el procesamiento de alimentos y piensos
- > Elementos de sujeción, tornillos y tuercas
- > Aplicaciones de forja
- > Otros componentes de CPI, gas y petróleo
- > Válvulas y actuadores
- > Tendidos de cable
- > Distribuidores para aplicaciones de componentes
- > Tuberías y conectores
- > Ingeniería mecánica / construcción de maquinaria en general
- > Industria metalúrgica
- > Herramientas de terminación de pozos
- > Otros componentes
- > Distribuidores o productores de piezas estándar sin conocimiento de aplicaciones finales
- > Industria de procesado de alimentos
- > Gas y petróleo
- > Productos tubulares, bridas, accesorios
- > Bocas de pozo, árboles de navidad y colectores (incl. colgadores de tuberías), BOP
- > Herramientas de excavación de pozos

Datos técnicos

Designación		Estándares	
Nitronic 60	Market grade	A193	ASTM
S21800	UNS	A194	
		A276/A276M	
		A479/A479M	

Composición Química

C	Si	Mn	P	S	Cr	Ni	N
máx. 0,10	3,5 a 4,5	7,0 a 9,0	máx. 0,060	máx. 0,030	16,0 a 18,0	8,0 a 9,0	0,08 a 0,18

Related to ASTM A193 B8S,B8SA

Estado de suministro

Solution annealed	
Dureza (HB)	máx. 271
Resistencia a la tracción (N/mm ²)	mín. 656
Resistencia a la cesión (MPa)	mín. 345

Barras redondas

Diámetro* mm	
FORZADO	
5,00	13,50
5,00	130,00
FORJADO	
130,10	304,80

* Diameter 5.00 - 13.50 mm available as Wire Rod.

Diameter 5.00 - 130 mm round bars.

Further information on MOQ, lengths and tolerances on request.

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

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.

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voestalpine
 ONE STEP AHEAD.