

ACIERS AUSTÉNITIQUES

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

BÖHLER A965SA is an austenitic stainless steel alloy with 6% molybdenum and nitrogen. It has very high resistance to crevice and surface corrosion and was specially developed for the requirements of the chemical industry, the pulp and paper industry and the oil/gas industry. Due to its PREN value of over 40, the material is particularly resistant to seawater and is therefore often used in offshore technology. Furthermore, BÖHLER A965SA is resistant to intergranular corrosion up to 400°C. The required surface finish is pickled, scale-free heat treated or machined.

For applications in highly corrosive environments due to chemically aggressive media, e.g. for equipment and installations cooled with seawater and parts for offshore installations. In the chemical industry, where resistance to attack by pure acids as well as chloride ion-containing acids (especially sulphuric acid), organic acids and mixed acids in the higher pressure and temperature range is required. The increased resistance to crevice corrosion also allows the use where incrustations must be expected and / or where the formation of crevices cannot be avoided by constructive measures.

Procédé d'élaboration

Airmelted

Applications

- > Composants pour l'industrie chimique (LNG, FGD, Urée, LDPE...)
- > Industrie pétrolière et gazière
- > Tubes, brides et raccords
- > Outils pour carottage
- > Heat Exchanger (FR)
- > Chimie et pétrochimie (dont LNG, urée)
- > Autres composants
- > Valves et actionneurs
- > Tête de forage / BOPs / bloc collecteur
- > Industrie agro-alimentaire
- > Autres composants pour l'industrie pétrolière, gazière et chimique
- > Outils pour la réalisation de puits
- > Chemical industry - general (FR)

Données techniques

Désignation normalisée		Normes	
F44	Market grade	10088-3	EN ISO
254SMO		A182/A182M	ASTM
1.4547	SEL	A276/A276M	
X1CrNiMoCuN20-18-7	EN	A479/A479M	
S31254	UNS	MDS R17	NORSOK

Composition chimique

C	Si	Mn	P	S	Cr	Mo	Ni	Cu	N
max. 0,020	max. 0,80	max. 1,00	max. 0,030	max. 0,010	19,5 jusqu'à 20,5	6,0 jusqu'à 6,5	17,5 jusqu'à 18,5	0,50 jusqu'à 1,00	0,18 jusqu'à 0,25

Refers to ASTM A479 S 31254.

Condition de livraison

Recuit de mise en solution + trempe

Résistance à la traction (MPa)	min. 655
Yield Strength (MPa)	min. 300

Barres rondes et fil machine (le cas échéant)

Diamètre mm	
CERCLE	
12,50	- 130,00
FORMÉ	
130,10	- 200,00

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

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.