ACIERS RÉSISTANTS AU FLUAGE

Segment d'application

Land Based Turbines

Variantes de produits disponibles

Produit long*

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

Description du produit

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-molydenum-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.

Procédé d'élaboration

Airmelted + ESR

Applications

- Mécanique générale / machines-outils
- Energie (gaz/vapeur/ nucléaire)
- Autres composants automobiles (turbocompresseurs, segments de piston, capteurs, etc.)
- Aubes et arbres de turbine et compresseurs
- Autres composants de production d'énergie électrique

Données techniques

Désignation normalisée	
Alloy 286	Market grade
1.4980	SEL
X6NiCrTiMoVB25-15-2	EN
S66286	UNS

Normes	
VdTÜV WB435/3	Others

Composition chimique

C	Si	Mn	P	S	Cr	Mo	Ni	V	Ti	B
max. 0,080	max. 1,000	max. 2,000	max. 0,030	max. 0,030	13,500 jusqu'à 16,000	1,000 jusqu'à 1,500	24,000 jusqu'à 27,000	0,100 jusqu'à 0,500	1,900 jusqu'à 2,300	0,003 jusqu'à 0,010

Refers to VdTÜV 435/3

Condition de livraison

Solution annealed + precipitation hardened

Résistance à la traction (MPa)	900 jusqu'à 1 200
Yield Strength (MPa)	min. 600

Barres rondes et fil machine (le cas échéant)

Diamètre mm		
CERCLE		
12,50	-	130,00
FORMÉ		
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.

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voestalpine
ONE STEP AHEAD.