

# CREEP RESISTANT STEELS

## Available Product Variants

Plates

## Product Description

Components for steam and gas turbines, such as blades, discs, bolts and pins.

## Process Melting

VID

## Applications

- > Blades & Shafts for Turbines and Compressors
- > Fasteners, Bolts, Nuts
- > Other Power Generation Components

## Technical data

Material designation		Standards	
ST17/13W	Market grade	10088-1	EN ISO
1.4962	SEL	10302	
X12CrNiWTiB16-13	EN		

## Chemical composition (wt. %)

C	Si	Mn	Cr	Ni	W	Ti	B
0.13	0.3	0.65	16.1	13.6	2.8	≥ 5°C	0.004

## Thermal Expansions between 20°C | 68°F and ...

Temperature (°C)	100	200	300	400	500	600	700	800
Thermal expansion (10 <sup>-6</sup> m/(m.K))	15.7	16.7	17.1	17.4	17.6	17.8	18	18.7

If other available product variants are listed in addition to long products, please note that these may differ in terms of melting process, technical data, delivery and surface condition as well as available product dimensions. For mandatory technical specifications, other requirements and dimensions, please contact our regional voestalpine BÖHLER sales companies. 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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