

CREEP RESISTANT STEELS

Available Product Shapes

Ground Flat

Product Description

Components featuring elevated high temperature strength for use in thermal engines and power plants, such as turbine blades.

Properties

Creep resisting steel, hardened and tempered. Usual upper temperature limit for continuous operating 600°C.

Material designation	
1.4906	SEL
X12CrMoWVNbV10-1-1 X12CrMoWVNbN10-1-1	EN
X12	Market grade

Chemical composition

C	Si	Mn	Cr	Mo	Ni	V	W	Nb	N
0.12	0.09	0.45	10.40	1.10	0.75	0.20	1.00	0.05	0.05

Thermal Expansions

Temperature (°C / °F)	100 / 212	200 / 392	300 / 572	400 / 752	500 / 932	600 / 1112
Thermal expansion (10 ⁻⁶ m/(m.K) / 10 ⁻⁶ inch/(inch.F))	10.5 / 5.833	11 / 6.111	11.5 / 6.389	12 / 6.667	12.3 / 6.833	12.5 / 6.944

For more information see www.voestalpine.com/boehler-edelstahl

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ONE STEP AHEAD.