

CREEP RESISTANT STEELS

Available Product Shapes

Ground Flat

Product Description

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

Properties

Creep resisting steel, hardened and tempered. Usual upper temperature limit for continuous operating 580°C.

Material designation		Standards	
1.4913	SEL	E10	ASTM
X19CrMoNbVN11-1	EN	≈ BS : S150	BS
X19	Market grade		

Chemical composition

C	Si	Mn	Cr	Mo	Ni	V	Nb	N
0.17	0.35	0.70	10.60	0.60	0.40	0.25	0.30	0.07

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.