

CREEP RESISTANT STEELS

Available Product Variants

- Plates
- Open Die Forgings

Product Description

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

Process Melting

- VID

Applications

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

Technical data

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

Chemical composition (wt. %)

C	Si	Mn	Cr	Mo	Ni	V	Nb	N
0.17	0.35	0.7	10.6	0.6	0.4	0.25	0.3	0.07

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

Temperature (°C °F)	100 212	200 392	300 572	400 752	500 932	600 1,112
Thermal expansion (10 ⁻⁶ m/(m.K) 10 ⁻⁶ inch/inch. °F)	10.5 5.8	11 6.1	11.5 6.4	12 6.7	12.3 6.8	12.5 6.9

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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