

CREEP RESISTANT STEELS

Available Product Shapes

Ground Flat

Product Description

Highly stressed components in gas turbines, engines and rockets, such as turbine blades and discs, shafts, pins, bolts, screws, springs, exhaust reheaters, housing components, thrust nozzles. Liners for containers for tube and rod extruding of copper and copper-alloys (billet temperature higher than 700°C).

Properties

Highly creep and corrosion resistant, precipitation hardening austenitic steel. Scaling resistance in air up to appr. 800°C.

Material designation		Standards	
1.2779	SEL	10088-1	EN ISO
1.4933		10302	
1.4944		10269	
1.4980		A453	ASTM
D66286	A484		
X6NiCrTiMoVB25-15-2	A638		
660	A891		
S66286	A959		
SUH 660	JIS	F2281 (12)	
660	Market grade	AS7235	AMS
A286		AS7477	
	AS7478		
	AS7479		
	AS7481		
	AS7482		
	5525J		
	5726E		
	5731		
	5732		
	5734K		
	5804H		
	5737P		
	5805H		
	5810B		
	5811D		
	5853C		
	5858D		
	5895E		
		G4311	JIS
		G4312	

Chemical composition

C	Si	Mn	Cr	Mo	Ni	V	Ti	Al	B
0.05	0.25	1.50	15.00	1.30	25.30	0.30	2.10	0.25	0.005

Thermal Expansions

Temperature (°C / °F)	100 / 212	200 / 392	300 / 572	400 / 752	500 / 932	600 / 1112	700 / 1292	800 / 1472
Thermal expansion (10 ⁻⁶ m/ (m.K) / 10 ⁻⁶ inch/(inch.F))	16.5 / 9.167	16.8 / 9.333	17.1 / 9.5	17.3 / 9.611	17.5 / 9.722	17.7 / 9.833	18 / 10	18.5 / 10.278

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

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ONE STEP AHEAD.