CREEP RESISTANT STEELS

Application Segments

Aerospace | Automotive

Available Product Variants

Long Products* | Semi-Finished Products / Billet | Plates | Open Die Forgings

* Information and data presented in this Data-Sheet refers to the indicated Product Shape only. For information on further Product Shapes mentioned above please contact the regional BOHLER sales representative.

Product Description

BÖHLER T200 is a corrosion and heat-resistant steel in the form of bars, wire, forgings and stock for forging.

It is an ESR-quality, austenitic precipitation hardenable nickel-chromium-molydenum-titanium steel.

These products have been used typically for such as turbine discs, shafts, spacers and fittings requiring moderate strength up to 1300 °F (704 °C) and oxidation resistance up to 1500 °F(816 °C) but usage is not limited to such applications.

Process Melting

Airmelted + ESR

Applications

- Aerospace
- Automotive
- Other Aerospace Comps.
- Automotive Racing
- Structural parts (Aerosp)

Technical data

Material designation	
1.4943 1.4944	SEL
S66286	UNS
A286	Market grade

Standards	
5732 5731	AMS

Chemical composition (wt. %)

C	Si	Mn	P	S	Cr	Mo	Ni	V	Cu	Co	Ti	Al	B	N
max. 0.08	max. 1.00	max. 2.00	max. 0.025	max. 0.025	13.50 to 16.00	1.00 to 1.50	24.00 to 27.00	0.10 to 0.50	max. 0.50	max. 1.00	1.90 to 2.35	max. 0.35	0.003 to 0.010	max. 0.010

Refers to AMS 5732

Delivery condition

Solution annealed + precipitation hardened

Hardness (HB)	248 to 341
Tensile Strength (MPa | ksi)	min. 896 | 130
Yield Strenght (MPa | ksi)	min. 586 | 85

Round Bars and Wire Rod (if any)

Diameter						MOQ ex mill		Length					Tolerance
mm			inch			kg	lbs	m			ft		
ROLLED													
12.50	-	55.00	0.492	-	2.165	1,150	2,535	3.00	-	4.00	9.84	-	13.12	IT h/k 11
55.01	-	120.00	2.166	-	4.724	2,350	5,181	3.00	-	4.00	9.84	-	13.12	IT h/k 11
120.01	-	130.00	4.725	-	5.118	2,350	5,181	3.00	-	5.00	9.84	-	16.40	IT h/k 14
FORGED													
130.01	-	152.40	5.119	-	6.000	1,260	2,778	2.00	-	5.00	6.56	-	16.40	IT h/k 14

Flat Bars

Width						Thickness					MOQ ex mill		Length					Tolerance
mm			inch			mm			inch				m			ft		
ROLLED																		
15.00	-	121.00	0.591	-	4.764	10.00	-	86.00	0.394	-	3.386	1,250	2,756	3.00	-	4.00	9.84	-	13.12	LN 1017
120.00	-	150.00	4.724	-	5.906	25.00	-	85.00	0.984	-	3.346	2,650	5,842	3.00	-	4.00	9.84	-	13.12	LN 1017
150.00	-	275.00	5.906	-	10.827	20.00	-	100.00	0.787	-	3.937	2,550	5,622	3.00	-	4.00	9.84	-	13.12	LN 1017
275.00	-	330.00	10.827	-	12.992	25.00	-	80.00	0.984	-	3.150	2,650	5,842	3.00	-	4.00	9.84	-	13.12	LN 1017
FORGED																				
100.00	-	392.00	3.937	-	15.433	50.00	-	250.00	1.969	-	9.843	3,800	8,378	2.00	-	5.00	6.56	-	16.40	

For more information see https://www.voestalpine.com/bohler-edelstahl/de/

For additional specifications and other sizes please contact BÖHLER Edelstahl - Special Materials Aerospace & Land Based Turbine respectively High Speed Steel & Automotive Components

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ONE STEP AHEAD.