

CREEP RESISTANT STEELS

Application Segments

Aerospace

Available Product Variants

Long Products*

Semi-Finished Products / Billet

Plates

* Presented data refer exclusively to long products. Please observe the detailed explanations at the end of the data sheet (pdf).

Product Description

BÖHLER T552 is a premium aircraft-quality corrosion-resistant chromium-nickel-molybdenum steel in the form of bars, wire, forgings and stock for forging.

These products have been used typically for parts such as compressor wheels and structural members requiring corrosion resistance and high strength up to 800°F (427 °C), but usage is not limited to such applications.

Process Melting

Airmelted + ESR

Applications

> Aerospace

> Other Aerospace Components

> Structural parts (Aerospace)

Technical data

Material designation		Standards	
Jethete	Market grade	5719	AMS
1.4939	SEL		
X12CrNiMo12	EN		
S64152	UNS		

Chemical composition (wt. %)

C	Si	Mn	P	S	Cr	Mo	Ni	V	Cu	N
0.08 to 0.15	max. 0.35	0.50 to 0.90	max. 0.025	max. 0.025	11.00 to 12.50	1.50 to 2.00	2.00 to 3.00	0.25 to 0.40	max. 0.50	0.01 to 0.05

Related to AMS 5719 Type 2

Delivery condition

Annealed

Hardness (HB)	max. 311 bars, hot or cold finished, forgings
Tensile Strength (MPa)	max. 1,069 for wire products

Round Bars and Wire Rod (if any)

Diameter mm			MOQ ex mill kg	Length m			Tolerance
ROLLED							
12.50	-	55.00	850	3.00	-	4.00	IT h/k 11
55.01	-	120.00	2,650	3.00	-	4.00	IT h/k 11
120.01	-	140.00	2,650	3.00	-	5.00	IT h/k 14
FORGED							
140.01	-	203.20	2,400	2.00	-	5.00	IT h/k 14
203.21	-	304.80	3,800	2.00	-	5.00	IT h/k 14
304.81	-	457.20	8,000	2.00	-	5.00	IT h/k 14

Flat Bars

Width mm			Thickness mm			MOQ ex mill kg		Length m			Tolerance	
ROLLED												
15.00	-	121.00	10.00	-	86.00	950		3.00	-	4.00	LN 1017	
120.00	-	150.00	22.00	-	112.00	2,700		3.00	-	4.00	LN 1017	
150.00	-	275.00	18.00	-	107.00	2,700		3.00	-	4.00	LN 1017	
275.00	-	330.00	15.00	-	107.00	2,700		3.00	-	4.00	LN 1017	

If other available product variants are listed in addition to long products, please note that these may differ in terms of melting process, technical data, delivery and surface condition as well as available product dimensions. For mandatory technical specifications, other requirements and dimensions, please contact our regional voestalpine BÖHLER sales companies. 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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voestalpine
 ONE STEP AHEAD.