

ENGINEERING STEELS - HEAT TREATABLE AND NITRIDING STEELS

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Available Product Variants

Long Products

Product Description

BÖHLER V354 is an alloyed Cr-Mo-V quenched and tempered steel for high strength and high temperature requirements, good weldability and suitable for nitriding. Insensitive to tempering embrittlement due to Mo content.

Mainly for components in the aerospace industry to be welded and nitrided with high quenched and tempered strength, at operating temperatures from -75° C to 500° C.

Process Melting

Airmelted

Applications

> Structural parts (Aerospace)

> Other Aerospace Components

Technical data

Material designation		Standards	
1.7734	Mandan and	1.7734	WL
15CDV6	Market grade		
1.7734	SEL		

Chemical composition (wt. %)

	I	I	I	I	l	1	I.
С	Si	Mn	P	S	Cr	Мо	V
0.12 to 0.18	max. 0.20	0.80 to 1.10	max. 0.020	max. 0.015	1.25 to 1.50	0.80 to 1.00	0.20 to 0.30

Related to WL 1.7734





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BÖHLER V354

Delivery condition

Hardness (HB)	max. 197 Bars from 5 to 250 mm diameter	
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Hardened and Tempered		
Tensile Strength (MPa)	min. 700 from 5 to 250 mm diameter	
Yield Strength (MPa)	min. 550 from 5 to 250 mm diameter	
Hardened and Tempered		
Tensile Strength (MPa)	980 to 1,180 from 5 to 100 mm diameter	
<u> </u>	980 to 1,180 from 5 to 100 mm diameter min. 790 from 5 to 100 mm diameter	
Tensile Strength (MPa)		
Tensile Strength (MPa)		
Tensile Strength (MPa) Yield Strength (MPa)		

Round Bars and Wire Rod (if any)

Diameter			MOQ ex mill	Length			Tolerance
mm			kg	m			
			ROL	LED			
5.01	-	12.49	850	3.00	-	4.00	IT h/k 11
12.50	-	55.00	1,000	3.00	-	4.00	IT h/k 11
55.01	-	69.00	1,200	3.00	-	4.00	IT h/k 11
69.01	-	72.00	1,000	3.00	-	4.00	IT h/k 11
72.01	-	82.00	1,150	3.00	-	4.00	IT h/k 11
82.01	-	120.00	1,400	3.00	-	4.00	IT h/k 11
120.01	-	150.00	1,400	3.00	-	5.00	IT h/k 14
			FOR	GED			
150.01	-	152.00	1,200	2.00	-	5.00	IT h/k 14
152.01	-	192.00	950	2.00	-	5.00	IT h/k 14
192.01	-	203.20	1,440	2.00	-	5.00	IT h/k 14

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.

voestalpine BÖHLER Edelstahl GmbH & Co KG

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