

HEAT TREATABLE STEELS AND PRECIPITATION HARDENING STEELS

Application Segments

Aerospace	Automotive
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Available Product Variants

Long Products

Product Description

BÖHLER V132 is a premium aircraft-quality, low-alloy Ni-Cr-Mo steel in the form of bars, forgings and forging stock requiring high tensile and toughness values, particular in large cross sections in the hardened and tempered condition.

These products have been used typically for parts requiring a through-hardening capability up to 3.5 inches (89 mm) in nominal thickness at time of heat treatment but usage is not limited to such applications. E.g. highly stressed components and parts for the aircraft industry, Tracks, helicopter shafts, bolts and screws.

Process Melting

Airmelted + VAR

Applications

> Automotive

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

Technical data

Material designation		Standards	
300M	Market grade	6417	AMS
K44220	UNS		

Chemical composition (wt. %)

С	Si	Mn	P	S	Cr	Мо	Ni	٧	Cu	
0.38 to 0.43	1.45 to 1.80	0.60 to 0.90	max. 0.010	max. 0.010	0.70 to 0.95	0.30 to 0.50	1.65 to 2.00	0.05 to 0.10	max. 0.35	

Releated to AMS 6417





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Delivery condition

Annealed		
Hardness (HB)	max. 311 Hot finished and annealed, above 12.7 mm diameter	
Annealed		
Tensile Strength (MPa ksi)	max. 1,027 149 Cold finished and annealed, max 12.7 mm diameter	

Round Bars and Wire Rod (if any)

Diameter						MOQ	Length						Tolerance	
mm inch		h	kg	lbs	m		ft							
ROLLED														
12.50	-	55.00	0.492	-	2.165	1,200	2,646	3.00	-	4.00	9.84	-	13.12	IT h/k 11
55.01	-	120.00	2.166	-	4.724	2,500	5,512	3.00	-	4.00	9.84	-	13.12	IT h/k 11
120.01	-	140.00	4.725	-	5.512	2,500	5,512	3.00	-	5.00	9.84	-	16.40	IT h/k 14
	FORGED													
140.01	-	203.20	5.512	-	8.000	2,200	4,850	2.00	-	5.00	6.56	-	16.40	IT h/k 14
203.21	-	254.00	8.000	-	10.000	3,500	7,716	2.00	-	5.00	6.56	-	16.40	IT h/k 14

For additional specifications and other sizes please contact BÖHLER Edelstahl - Special Materials Aerospace & Land Based Turbine

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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