

Application Segments

ENGINEERING STEELS MARTENSITIC PRECIPITATION HARDENING (MARAGING) STEELS

Aerospace				
Available Product Vari	ants			
Long Products*	Plates			
* Presented data refer exclus	sively to long prod	lucts. Please observe the de	tailed explanations a	t the end of the data sheet (pdf).
Product Description				
BÖHLER V250AMS is a prer (254.00 mm) inclusive in diar	nium aircraft-qual neter or least dist	lity, maraging alloy steel in th ance between parallel sides	ne form of bars, forgi	ngs and stock for forging up through 10 inches
In contrast to heat treatable s but to precipitation of interme				structure with relatively high carbon content, t no carbon.
	parts may require	e welding during fabrication,		ing, to a minimum yield strength of 240 ksi ed to such applications. E.g highly stressed
Process Melting				
VIM + VAR				
Applications				
> Structural parts (Aerospac	ce)	> Other Aerospac	e Components	> Aerospace
Technical data				
Material designation		Standards		
Maraging 250	Market grade	6512	AMS	



ENGINEERING STEELS -MARTENSITIC PRECIPITATION HARDENING (MARAGING) STEELS

BÖHLER V250AMS

Chemical composition (wt. %)

С	Si	Mn	Р	S	Cr	Мо	Ni	Cu	Со	Ti	Al	В	Ca	Zr
max.	max.	max.	max.	max.	max.	4.60 to	17.00 to	max.	7.00 to	0.30 to	0.05 to	max.	max.	max.
0.03	0.10	0.10	0.010	0.010	0.50	5.20	19.00	0.50	8.50	0.50	0.15	0.004	0.05	0.02

Related to AMS 6512

Delivery condition

Solution annealed						
Hardness (HRC) max. 34 Above 12.7 mm diameter						
Solution annealed						
Solution annealed Hardness (HRC)	max. 34 Max 12.7 mm diameter					

Round Bars and Wire Rod (if any)

Di	Diameter		MOQ ex mill	Length		gth	Tolerance			
	mm		kg	m						
	ROLLED									
5.01	-	12.49	1,100	3.00	-	4.00	IT h/k 11			
12.50	-	55.00	1,300	3.00 - 4.00		4.00	IT h/k 11			
55.01	-	120.00	2,500	3.00 - 4.00		4.00	IT h/k 11			
120.01	-	140.00	2,500	3.00 - 5.00		5.00	IT h/k 14			
	FORGED									
140.01	-	203.20	2,200	3.00	-	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.

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