

Application Segments

ENGINEERING STEELS MARTENSITIC PRECIPITATION HARDENING (MARAGING) STEELS

Aerospace				
Available Product \	⁄ariants			
Long Products*	Plates			
* Presented data refer ex	clusively to long produ	ucts. Please observe the de	tailed explanations	at the end of the data sheet (pdf).
Product Description	1			
BÖHLER V300 covers a (254.00 mm) inclusive in	premium aircraft-quali diameter or least dista	ity, maraging alloy steel in t ance between parallel sides	ne form of bars, forg	ings and stock for forging up through 10 inches
		ing tensile properties are no a ductile nickel bearing ma		structure with relatively high carbon content, st no carbon.
These products have bee (1862 MPa) and where so components for the aircra	uch parts may require	welding during fabrication,	ning, without quenc but usage is not lim	ning, to a minimum yield strength of 270 ksi ted to such applications. E.g highly stressed
Process Melting				
VIM + VAR				
Applications				
> Structural parts (Aeros	space)	> Other Aerospac	e Components	> Aerospace
Technical data				
Material designation		Standards		
Maraging 300	Market grade	6514	AMS	
1.6354	SEL			





ENGINEERING STEELS -MARTENSITIC PRECIPITATION HARDENING (MARAGING) STEELS

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	18.00 to	max.	8.50 to	0.50 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	9.50	0.80	0.15	0.004	0.05	0.02

Related to AMS 6514

Delivery condition

Solution annealed						
Hardness (HRC)	max. 36 Above 12.7 mm diameter					
Solution annealed						
Solution annealed Hardness (HRC)	max. 36 Max 12.7 mm diameter					

Round Bars and Wire Rod (if any)

Di	Diameter		MOQ ex mill	Length		ŋth	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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