

ENGINEERING STEELS - HEAT TREATABLE AND NITRIDING STEELS

Application Segme	ents			
Aerospace				
Available Product	Variants			
Long Products*	Open Die Fo	orgings		
* Presented data refer e	exclusively to long pro	oducts. Please observe the de	tailed explanations at the	end of the data sheet (pdf).
Product Description	on			
		lity, low-alloy Ni-Cr-Mo steel in ess sections in the hardened a		s and forging stock requiring high tensile
	ut usage is not limite			5 inches (89 mm) in nominal thickness at s and parts for the aircraft industry,
Process Melting				
Airmelted + VAR				
Applications				
> Structural parts (Aero	ospace)	> Other Aerospac	e Components	> Aerospace
Technical data				
Material designation		Standards		
4340	Market grade	6414	AMS	
G43400	UNS			



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BÖHLER V124SC

Chemical composition (wt. %)

С	Si	Mn	Р	S	Cr	Мо	Ni	Cu
0.38 to 0.43	0.15 to 0.35	0.65 to 0.90	max. 0.010	max. 0.010	0.70 to 0.90	0.20 to 0.30	1.65 to 2.00	max. 0.35

Releated to AMS 6414

Delivery condition

Annealed		
Hardness (HB)	max. 235 Hot finished and annealed, above 12.7 mm diameter	
Annealed		
Tensile Strength (MPa)	max. 862 Cold finished and annealed, max 12.7 mm diameter	
Annealed		
Hardness (HB)	max. 255 Cold finished and annealed, above 12.7 mm diameter	

Round Bars and Wire Rod (if any)

D	Diameter		MOQ ex mill	Length		ŋth	Tolerance
	mm		kg	m			
	ROLLED						
12.50	T-1	55.00	1,250	3.00	T-	4.00	IT h/k 11
55.01	-	120.00	2,500	3.00	-	4.00	IT h/k 11
120.01	-	140.00	2,500	3.00	-	5.00	IT h/k 14
	FORGED						
140.01	-	203.20	2,200	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.

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