

CORROSION RESISTANT STEELS - MARTENSITIC, SEMI-MARTENSITIC AND FERRITIC STEELS

Application Segments

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ACIU.	SDUCE

Product Description

Premium Aircraft Quality, Chromium stainless steel with high hardness, wear resistance and good corrosion resistance in the hardened and tempered condition.

BÖHLER N695SA is a vacuum remelted quality steel, typically used for parts requiring hardness up to 58 HRC and resistance to wear, corrosion, and oxidation, e.g. balls, rollers, needles and rings for corrosion resistant bearings, but usage is not limited to such applications.

Process Melting

Airmelted + VAR

Applications

> Aerospace

> Other Aerospace Components

> Bearings

> Turbine and Engine Parts (Aerospace)

Technical data

Material designation		
440C	Market grade	
1.4125	SEL	
X102CrMo17		
X105CrMo17	EN	
Z100CD17		
S44004	UNS	

Standards		
	10088	EN ISO
	5618	AMS

Chemical composition (wt. %)

С	Si	Mn	P	S	Cr	Мо	Ni	Cu
0.95 to 1.20	max. 1.00	max. 1.00	max. 0.020	max. 0.010	16.00 to 18.00	0.40 to 0.65	max. 0.75	max. 0.50

Related to AMS 5618





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BÖHLER N695SA

Delivery condition

max. 255 Bars max 69.85 mm diameter, cold finished
max. 255 Bars above 69.85 mm diameter, hot or cold finished
max. 896 Wire, cold finished

Round Bars and Wire Rod (if any)

Di	iamet	er	MOQ ex mill	Length		th	Tolerance			
	mm		kg	m			m			
	ROLLED									
12.50	-	55.00	1,100	3.00	-	4.00	IT h/k 11			
55.01	-	120.00	1,200	3.00	-	4.00	IT h/k 11			
120.01	-	140.00	1,200	3.00	-	5.00	IT h/k 14			
	FORGED									
140.01		152.40	1,200	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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