

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

# **Application Segments**

Aero	non	200	

# **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	Р	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**

Hardness (HB) 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				
	max. 255   Bars above 69.85 mm diameter, hot or cold finished			

#### Round Bars and Wire Rod (if any)

Di	iamet	er	MOQ ex mill	Length		th	Tolerance	
	mm		kg	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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