

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

Application Segments		
Aerospace		
Available Product Variants		
Long Products* Plates		
* Presented data refer exclusively to long produc	cts. Please observe the detailed explanations at the end o	f the data sheet (pdf).
Product Description		
BÖHLER N695 is typically used for parts requiring rollers, needles and rings for corrosion resistant be	or resistance and good corrosion resistance in the harden g hardness up to 58 HRC and resistance to wear, corrosio bearings, but usage is not limited to such applications.	ed and tempered condition. n, and oxidation, e.g. balls,
Process Melting		
Airmelted		
Properties		
 > Toughness & Ductility: good > Wear Resistance: very high > English (United Kingdom): good > Dimensional stability: good > Polishability: good > Corrosion resistance: high 		
Applications		
 Aerospace Turbine and Engine Parts (Aerospace) 	> Other Aerospace Components	> Bearings



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Technical data

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

Standards		
	5630	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. 0.040	max. 0.030	16.00 to 18.00	0.40 to 0.65	max. 0.75	max. 0.50

Related to AMS 5630

Delivery condition

Annealed	
Hardness (HB)	max. 255 Bars max 69.85 mm diameter, cold finished
Annealed	
Hardness (HB)	max. 255 Bars above 69.85 mm diameter, hot or cold finished
Annealed	
Tensile Strength (MPa)	max, 896 Wire and Bars under 12.7 mm diameter, cold finished

Round Bars and Wire Rod (if any)

Di	Diameter		MOQ ex mill	Length		th	Tolerance		
	mm		kg	m					
	ROLLED								
5.01	-	12.49	1,000	3.00	-	4.00	IT h/k 11		
12.50	-	55.00	1,000	3.00	-	4.00	IT h/k 11		
55.01	-	69.00	1,300	3.00	-	4.00	IT h/k 11		
69.01	-	120.00	1,300	3.00	-	4.00	IT h/k 11		
120.01	-	130.00	1,200	3.00	-	4.00	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.

