

CORROSION RESISTANT STEELS - MARTENSITIC, SEMIMARTENSITIC AND FERRITIC STEELS

Application Segments		
Aerospace		
Available Product Variants		
Long Products* Plates		
* Presented data refer exclusively to long products. Pleas	se observe the detailed explanations at the end of t	the data sheet (pdf).
Product Description		
BÖHLER N695 is a Chromium alloyed stainless steel wit and tempered condition. this grade is typically used for parts requiring hardness u needles and rings for corrosion resistant bearings, but us	up to 58 HRC and resistance to wear, corrosion, and	
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



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

Technical data

Material designation		Standards		
440C	Market grade		5630	AMS
1.4125	SEL			
X102CrMo17				
X105CrMo17	EN			
Z100CD17				
S44004	UNS			

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		ıth	Tolerance	
	mm kg		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	T-	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.

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