

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

App	lication	Segmen	its

Aerospace	Automotive

Available Product Variants

Long Products*	Plates
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Product Description

BÖHLER N360 is a premium aircraft quality corrosion resistant, martensitic stainless steel, produced using the P-ESR-process. Compared to conventionally produced Cr and CrMo steels, BÖHLER N360 offers improved corrosion resistance and toughness properties as well as high hardness and compressive strength.

It is typically used for anti-friction bearing components e.g. bearings, ball screws and wear resistant components for use in the aircraft industry and for automotive components, requiring resistance to both corrosion and wear with hardness not lower than 58 HRC after hardening and tempering, but usage is not limited to such applications.

Process Melting

Airmelted + PESR

Applications

- > Structural parts (Aerospace)
- > Bearings

- > Aerospace
- > Automotive
- > Other Aerospace Components
- Motorsport industry

Technical data

Market grade
SEL
EN
UNS

Standards	
DIN SEW 400	DIN
A756	ASTM
5898	AMS



^{*} Presented data refer exclusively to long products. Please observe the detailed explanations at the end of the data sheet (pdf).



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Chemical composition (wt. %)

С	Si	Mn	P	s	Cr	Мо	Ni	N
0.28 to 0.34	0.30 to 0.80	0.30 to 0.60	max. 0.020	max. 0.010	14.5 to 16.0	0.95 to 1.10	max. 0.30	0.35 to 0.44

Related to AMS 5898

Delivery condition

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

Round Bars and Wire Rod (if any)

Diameter		ter	MOQ ex mill	Length			Tolerance	
	mm		kg	m				
ROLLED								
2.00	T-1	12.49	700	3.00	T-	4.00	IT h/k 11	
12.50	-	65.00	800	3.00	-	4.00	IT h/k 11	
65.01	-	120.00	1,500	3.00	-	4.00	IT h/k 11	
120.01	-	130.00	1,500	3.00	-	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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