

# CORROSION RESISTANT STEELS - MARTENSITIC, SEMIMARTENSITIC AND FERRITIC STEELS

Application Segme	nts 			
Aerospace				
Available Product \	/ariants			
Long Products*	7			
* ) Presented data refer e	exclusively to long pro	oducts. Please observe the deta	ailed explanation	ns at the end of the data sheet (pdf).
Product Description	1			
resistance compared to 1 having a strong, oxidizing	23% chromium steel. g effect such as nitric	Resistant to the effects of seav acid. Surface finish for optimur	ater, weak acids n corrosion resis	capable of taking a mirror finish. Higher corrosion s and alkaline solutions, as well as to acids stance: fine ground or polished. operating temperatures up to approx. 752° F.
- Trocess Meiting				
Airmelted				
Applications				
> Structural parts (Aeros	space)	> Othe	r Aerospace Cor	mponents
Technical data				
Material designation		Standards		
431	Market grade	S80	BS	
X15CrNi17-3	EN			

Мо

max.

Cr

max.

15 to

Ni

2.0 to

٧

max.

W

max.

Cu

max.

Co

max.

Τi

max.

Related to BS S80

Si

max.

С

0.12 to

Chemical composition (wt. %)

Mn

max.

max.

0.030



Nb

max.

Fe

REM

Sn

max.



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# **BÖHLER N352S1**

# **Delivery condition**

Annealed							
Hardness (HB)	max. 277   Bars up to 63mm diameter						
Tensile Strength (MPa)	880 to 1,080						
Yield Strength (MPa)	min. 690   S80D, bright bars up to 100mm diameter						

# Round Bars and Wire Rod (if any)

Di	Diameter		MOQ ex mill	Le	eng	ıth	Tolerance			
	mm		kg	m						
	ROLLED									
5.01	-	12.49	700	3.00	-	4.00	IT h/k 11			
12.50	-	55.00	800	3.00	-	4.00	IT h/k 11			
55.01	-	69.00	2,423	3.00	-	4.00	IT h/k 11			
69.01	-	115.00	950	3.00	-	4.00	IT h/k 11			

### Flat Bars

Width Thickness			MOQ ex mill*	Le	eng	jth	Tolerance			
	mm			mn	า	kg		m		
	ROLLED									
15.00	-	121.00	10.00	-	86.00	880	3.00	-	4.00	LN 1017
120.00	-	150.00	25.00	-	102.00	880	3.00	-	4.00	LN 1017
150.00	-	275.00	18.00	-	102.00	880	3.00	-	4.00	LN 1017

<sup>\*</sup> from 880kg (1940lbs) to 1050kg (2315lbs) depending on size

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.

# voestalpine BÖHLER Edelstahl GmbH & Co KG

Mariazeller Straße 25 8605 Kapfenberg, AT T. +43/50304/20-0 E. info@bohler-edelstahl.at

https://www.voestalpine.com/bohler-edelstahl/de/

