

Application Segments

CORROSION RESISTANT STEELS - MARTENSITIC, SEMIMARTENSITIC AND FERRITIC STEELS

Application degine	1110			
Aerospace				
Available Product \	/ariants			
Long Products*				
*) Presented data refer e	exclusively to long pro	oducts. Please observe the deta	ailed explanations at the	e end of the data sheet (pdf).
Product Description	า			
corrosion resistance com acids having a strong, ox	pared to 13% chromi idizing effect such as	um steel. Resistant to the effect nitric acid. Surface finish for or	ts of seawater, weak actimum corrosion resist	e of taking a mirror finish. Higher cids and alkaline solutions, as well as to ance: fine ground or polished. og temperatures up to approx. 752° F.
Process Melting				
Airmelted				
Applications				
> Structural parts (Aeros	space)	> Other Aerospace C	Components	> Aerospace
Technical data				
Material designation		Standards		
431	Market grade	S80	BS	
X15CrNi17-3	EN			

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

BÖHLER N352S1

Chemical composition (wt. %)

С	Si	Mn	Р	S	Cr	Мо	Ni	٧	W	Cu	Со	Ti	Nb	Fe	Sn
0.12 to	max.	max.	max.	max.	15 to	max.	2.0 to	max.	max.	max.	max.	max.	max.	REM	max.
0.20	1.0	1.0	0.030	0.025	18.0	0.30	3.0	0.20	0.05	0.30	0.05	0.05	0.05		0.02

Related to BS S80

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)

	ame mm	eter	MOQ ex mill kg	Le	eng m	ıth	Tolerance					
	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 mm mm				MOQ ex mill* kg	Le	eng m	th	Tolerance			
	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	

^{*} 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.

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