

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

Application Segme	ents
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Aerosi	oace

Available Product Variants

Long Products

Product Description

BÖHLER N352 is a martensitic chromium steel with nickel addition. Heat treatable grade, capable of taking a mirror finish. Higher corrosion resistance compared to 13% chromium steal. Resistant to the effects of seawater, weak acids and alkaline solutions, as well as to acids having a strong, oxidizing effect such as nitric acid. Surface finish for optimum corrosion resistance: fine ground or polished. For components subject to high mechanical and corrosive stress, e.g. screws and shafts, at operating temperatures up to approx. 752° F.

Process Melting

Airmelted

Applications

> Structural parts (Aerospace)

> Aerospace

> Other Aerospace Components

Technical data

Material designation	
431	Market grade AISI
1.4044	SEL
X15CrNi17-3	EN
S43100	UNS
SUS431	JIS

Standards	
1.4044	WL
AFNOR Z15CN16-02	Others





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Chemical composition (wt. %)

С	Si Mn		P	s	Cr	Ni
0.12 to 0.20	max. 1.0	max. 1.0	max. 0.035	max. 0.025	15.0 to 18.0	2.00 to 3.00

Related to WL 1.4044

Delivery condition

Hardness (HB) max. 248 1.4044.2, bars from 6 up to 160 mm diameter						
Hardened and Tempered						
Tensile Strength (MPa)	800 to 950 1.4044.5, bars from 6 mm up to 160 mm diameter					
Yield Strength (MPa)	min. 600					

Round Bars and Wire Rod (if any)

Die	Diameter MOQ ex mill kg			Le	eng m	th	Tolerance		
	ROLLED								
5.01	-	12.49	700	3.00	-	4.00	IT h/k 11		
12.50	-	54.00	800	3.00	-	4.00	IT h/k 11		
55.01	-	69.00	1,100	3.00	-	4.00	IT h/k 11		
69.01	-	115.00	950	3.00	-	4.00	IT h/k 11		

Flat Bars

	idtl nm		Thio	kr nn		MOQ ex mill kg	Length m			Tolerance
	ROLLED									
15.00	-	121.00	10.00	-	85.00	880	3.00	-	4.00	LN 1017
120.00	-	150.00	25.00	-	102.00	880	3.00	-	4.00	LN 1017
150.00	-	175.00	18.00	-	102.00	880	3.00	-	4.00	LN 1017

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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