

# FERRITIC AND MARTENSITIC STEELS, INCL. PRECIPITATION HARDENING STEELS

## Application Segments

Engineering

## Available Product Variants

Long Products\*

Plates

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

## Product Description

BÖHLER N360 is a corrosion resistant, martensitic stainless steel, produced using the pressurized-ESR-process ( P-ESR ). 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 engineering and medical industry, e.g. knives and other cutting tools, shafts, plastic extrusion, screw driver, drills, fasteners and engine-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

- > Bearings
- > Medical
- > General Components for Mechanical Engineering
- > Medical Industry
- > Cutting-typical instruments and knives
- > Mechanical Engineering
- > Plastic Extrusion
- > Civil and mechanical engineering
- > Machine knife (for producers)
- > Fasteners, Bolts, Nuts

## Technical data

Material designation		Standards	
X30	Market grade	DIN SEW 400	DIN
1.4108	SEL	F899	ASTM
X30CrMoN15-1	EN		
S42027	UNS		

### Chemical composition (wt. %)

C	Si	Mn	P	S	Cr	Mo	Ni	N
0.25 to 0.35	max. 1.00	max. 1.00	max. 0.030	max. 0.025	14.00 to 16.00	0.85 to 1.10	max. 0.50	0.30 to 0.50

Related to SEW 400-1.4108

### Delivery condition

#### Annealed

Hardness (HB) | max. 230 | Bars max 160 mm diameter

#### Round Bars and Wire Rod (if any)

		Diameter*			
		mm		inch	
<b>ROLLED</b>					
5.00	-	13.50		0.197	-
12.50	-	130.00		0.492	-
					0.531
					5.118

\* Diameter 5.00 - 13.50 mm available as Wire Rod.

Diameter 12.5 - 130 mm round bars.

More information regarding MOQ, lengths and tolerances upon request.

**Long Products:** For additional specifications, technical requirements, and other dimensions, please contact our regional voestalpine BÖHLER sales companies.

**Sheet & Plates:** Product Variant may differ in terms of melting process, technical data, delivery, and surface condition as well as available product dimensions. Please contact voestalpine BÖHLER Bleche GmbH & Co KG.

*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.*