

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

## Application Segments

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Engineering

## Available Product Variants

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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

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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

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Airmelted + PESR

## Applications

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- > Bearings
- > Machine knife (for producers)
- > Custom Hand Knives
- > Pumps
- > Robotics
- > Typical cutting instruments and knives
- > Plastic Extrusion
- > Components for food processing and animal feed
- > Injection Components
- > Civil and mechanical engineering
- > Fasteners, Bolts, Nuts
- > Surgery
- > Mechanical Engineering

### 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     |  |
|---------------|---|--------|--|
| <b>ROLLED</b> |   |        |  |
| 5.00          | - | 13.50  |  |
| 12.50         | - | 130.00 |  |

\* 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.

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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