CORROSION RESISTANT STEELS - MARTENSITIC, SEMI-MARTENSITIC AND FERRITIC 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
- 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	
X30	Market grade
1.4108	SEL
X30CrMoN15-1	EN
S42027	UNS

Standards	
DIN SEW 400	DIN
F899	ASTM

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		
ROLLED		
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.

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ONE STEP AHEAD.