

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

## **Application Segments**

Automotive

#### **Available Product Variants**

Long Products

### **Product Description**

BÖHLER N114 is a modified 13% chromium steel with special soft magnetic properties, namely very low coercive force and high electrical resistance. Due to the high sulphur content, the material can be machined very well, for example on automatic machining centres. BÖHLER N114 has very good hot and cold extrusion properties.

It is used for stainless parts for mechanical and electrical engineering, for example solenoid valves, pistons, back-locking parts, pole cores, shieldings and magnetic armatures.

Delivery condition mill annealed. A final annealing treatment for magnetic properties is to be carried out after cold reforming, such as extrusion, upsetting or extensive machining operations.

### **Process Melting**

Airmelted

## Applications

- > Automotive
- > Injection Components
- Motorsport industryValves and Actuators
- > Civil and mechanical engineering

### **Technical data**

Material designation		Standards	
BÖHLER Trademark	Market	10088-1	en iso
	quuue		

## Chemical composition (wt. %)

С	Si	Mn	P	S	Cr	AI
max. 0.08	max. 1.25	max. 1.00	max. 0.040	max. 0.23	12.00 to 14.00	0.20 to 0.80

Refers to EN-ISO 10088-1, 1.4002 modified





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#### **Delivery condition**

Annealed   Dimension max. 60 mm				
Hardness (HB)	120 to 180			
Tensile Strength (MPa)	400 to 600			
Others   Annealed + cold worke	£			
Others   Annealed + cold worker Hardness (HB)	150 to 220			

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

Diameter*				
mm				
ROLLED				
5.00	-	13.50		
12.50	-	50.00		

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

Diameter 12.5 - 50 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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