

# CORROSION-RESISTANT STEELS - AUSTENITIC STEELS AND NON MAGNETIC STEELS

## Application Segments

Engineering

## Available Product Variants

Long Products

## Product Description

BÖHLER P570 is a non-magnetic, nickel-free, austenitic Cr-Mn-Mo-N stainless steel for high-quality watches, with excellent corrosion resistance. The high nitrogen content is responsible for good strength and ductility properties, both in the solution-annealed and cold-worked condition. This results in a stable austenitic microstructure without delta ferrite, sigma phase and other precipitates. In addition, a homogeneous structure and a high degree of purity are achieved by remelting processes. This in turn guarantees the best polishability. Due to the low nickel content, good biocompatibility is achieved. BÖHLER P570 has a high cold forming potential, high strength is already achieved with low cold forming.

## Process Melting

Airmelted + ESR

## Applications

> Watch Industry

## Chemical composition (wt. %)

C	Si	Mn	Cr	Mo	Ni	N
0.20	0.40	12.00	17.00	3.00	0.20	0.50

The exact chemical composition is the intellectual property of voestalpine BÖHLER Edelmetall GmbH & Co KG.

## Delivery condition

### Solution Annealed + Quenched

Tensile Strength (MPa)	min. 900   Approximate guide value.
Yield Strength (MPa)	min. 600   Approximate guide value.

Round Bars and Wire Rod (if any)

Diameter*	
mm	
ROLLED	
5.00	- 15.50
12.50	- 65.00

\* Diameter 5.00 - 15.50 mm available as Wire Rod.

Diameter 12.5 - 65 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.