

CORROSIONS-RESISTANT STEELS - AUSTENITIC STEELS AND NON MAGNETIC STEELS

Application Segments

Engineering

Available Product Variants

Long Products

Product Description

BÖHLER A204 is a stainless austenitic Cr-Ni-Mo steel with low carbon content. Resistant to intergranular corrosion up to 750°F (400°C).

Heat treatment after welding not required.

Good resistance to reducing acids, such as diluted sulfuric and hydrochloric acid, and to localized corrosion attack in media containing chlorine ions. Required surface finish pickled or polished. Very good cold formability, highly polishable.

Use for watch industry, apparatus in the chemical, paper, cellulose, textile and pharmaceutical industries. Nuclear technology: Equipment subject to increased corrosion stress, also by media containing Cl, e.g. steam generator and superheater tubes in pressurized water reactors, condenser tubes, tube plates, fittings.

Process Melting

Airmelted

Applications

- > Watch Industry
- > Components for food processing and animal feed
- > Luxury Watch Industry
- > Chemical industry - general
- > Consumer Goods - General

Technical data

Material designation		Standards	
316L	Market grade	10088-3	EN ISO
1.4435	SEL		
X2CrNiMo18-14-3	EN		

Chemical composition (wt. %)

C	Si	Mn	P	S	Cr	Mo	Ni	N
max. 0.030	max. 1.00	max. 2.00	max. 0.045	max. 0.030	17.0 to 19.0	2.50 to 3.00	12.5 to 15.0	max. 0.10

Related to DIN EN 10088-3.

Delivery condition

Solution Annealed + Quenched

Hardness (HB)	max. 215 thickness or diameter max. 250mm
Tensile Strength (MPa)	500 to 700
Yield Strength (MPa)	min. 200

Round Bars and Wire Rod (if any)

Diameter* mm		
ROLLED		
5.00	-	15.50
12.50	-	65.00

* Diameter 5.00 - 15.5 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.