

# AUSTENITIC 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
- > General Components for Mechanical Engineering
- > Chemical industry - general
- > Luxury Watch Industry
- > Comps. for Food processing and Animal Feed
- > Consumer Goods - General
- > Comp. for Chemical plants (incl. LNG, FGD, Urea, LDPE, etc.)

## 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   ksi)	500 to 700   73 to 102
Yield Strength (MPa   ksi)	min. 200   30

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

mm		Diameter*				inch	
		ROLLED					
5.00	-	15.50		0.197	-	0.610	
12.50	-	65.00		0.492	-	2.559	

\* 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.

For additional specifications and other sizes please contact BÖHLER Edelstahl - Special Materials Engineering

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