

AUSTENITIC STEELS

Application Segments

Engineering

Available Product Variants

Long Products

Product Description

BÖHLER A224 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.

Process Melting

Airmelted + ESR

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)	max. 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 - 15.50 mm available as Wire Rod.

Diameter 12.5- 65mm round bars.

More information regarding MOQ, lengths and tolerances upon request.

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

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.