

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

Application Segments

Engineering

Available Product Variants

Long Products

Product Description

BÖHLER N695 is a corrosion-resistant steel with 17%Cr and Mo-addition in the form of bars, wire, forgings, and forging stock. These products have been used typically for parts in general engineering and cutting and non cutting, medical applications, e.g. chisels, knives, osteotomes, scalpels drills, retractors, spreaders, tongs, balls, rollers, needles and rings for corrosion resistant bearings requiring hardness from 58 up to 60 HRC and resistance to wear, corrosion, and oxidation depending on parts design and application but usage is not limited to such applications.

Process Melting

Airmelted

Applications

- > Bearings
- > Mechanical Engineering
- > Medical Industry
- > Civil and mechanical engineering
- > Medical
- > Wear parts
- > General Components for Mechanical Engineering
- > Medical Instruments & Implants

Technical data

Material designation		Standards	
440C	Market grade	A276/A276M	ASTM
1.4125	SEL	F899	
X105CrMo17	EN		
S44004	UNS		

Chemical composition (wt. %)

C	Si	Mn	P	S	Cr	Mo
0.95 to 1.20	max. 1.00	max. 1.00	max. 0.040	max. 0.030	16.0 to 18.0	max. 0.75

Refers to ASTM A276 (440C).

Delivery condition

Annealed

Hardness (HB)	max. 269 hot-finished
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Annealed

Hardness (HB)	max. 285 cold-finished
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Round Bars and Wire Rod (if any)

Diameter*		mm	
ROLLED			
5.00	-	13.50	
12.50	-	130.00	
FORGED			
130.10	-	200.00	

* Diameter 5.00 - 13.50 mm available as Wire Rod.

Diameter 12.5 - 130 mm round bars.

Further information on MOQ, lengths and tolerances on 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.