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
- Wear parts
- Civil and mechanical engineering
- Surgery
- Mechanical Engineering
- Electronic industry

Technical data

Material designation	
440C	Market grade
1.4125	SEL
X105CrMo17	EN
S44004	UNS

Standards	
A276/A276M F899	ASTM

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

Annealed	
Hardness (HB)	max. 285 | cold-finished

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.

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voestalpine
ONE STEP AHEAD.