# OȚELURI REZISTENTE LA COROZIUNE - OȚELURI MARTENSITICE, SEMI-MARTENSITICE ȘI FERITICE

## Application Segments

Aviație

## Available Product Variants

Long Products* | Plates

* Datele prezentate se referă exclusiv la produsele lungi. Vă rugăm să respectați explicațiile detaliate de la sfârșitul fișei tehnice (pdf).

## Product Description

BÖHLER N695 is a Chromium alloyed stainless steel with high hardness, wear resistance and good corrosion resistance in the hardened and tempered condition.
this grade is typically used for parts requiring hardness up to 58 HRC and resistance to wear, corrosion, and oxidation, e.g. balls, rollers, needles and rings for corrosion resistant bearings, but usage is not limited to such applications.

## Process Melting

Aer topit

## Properties

- Rezistență și ductilitate : good
- Rezistență la uzură : very high
- Machinability : good
- Stabilitatea dimensională : good
- Poluabilitate : good
- Rezistență la coroziune : high

## Applications

- Alte componente aerospațiale
- Rulmenți
- Turbine and Engine Parts (Aerospace)

## Technical data

| Material designation | |
|---|---|
| 440C | Market grade |
| 1.4125 | SEL |
| X102CrMo17 | EN |
| X105CrMo17 | EN |
| Z100CD17 | EN |
| S44004 | UNS |

| Standards | |
|---|---|
| 5630 | AMS |

## Chemical composition (wt. %)

| C | Si | Mn | P | S | Cr | Mo | Ni | Cu |
|---|---|---|---|---|---|---|---|---|
| 0.95 to 1.20 | max. 1.00 | max. 1.00 | max. 0.040 | max. 0.030 | 16.00 to 18.00 | 0.40 to 0.65 | max. 0.75 | max. 0.50 |

Related to AMS 5630

## Delivery condition

| Recoaptă | |
|---|---|
| Hardness (HB) | max. 255 \| Bars max 69.85 mm diameter, cold finished |

| Recoaptă | |
|---|---|
| Hardness (HB) | max. 255 \| Bars above 69.85 mm diameter, hot or cold finished |

| Recoaptă | |
|---|---|
| Tensile Strength (MPa) | max. 896 \| Wire and Bars under 12.7 mm diameter, cold finished |

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

| Diameter mm | | | MOQ ex mill kg | Length m | | | Tolerance |
|---|---|---|---|---|---|---|---|
| **ROLLED** | | | | | | | |
| 5.01 | - | 12.49 | 1,000 | 3.00 | - | 4.00 | IT h/k 11 |
| 12.50 | - | 55.00 | 1,000 | 3.00 | - | 4.00 | IT h/k 11 |
| 55.01 | - | 69.00 | 1,300 | 3.00 | - | 4.00 | IT h/k 11 |
| 69.01 | - | 120.00 | 1,300 | 3.00 | - | 4.00 | IT h/k 11 |
| 120.01 | - | 130.00 | 1,200 | 3.00 | - | 4.00 | IT h/k 14 |

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.