

FERRITIC AND MARTENSITIC STEELS, INCL. PRECIPITAION HARDENING STEELS

| Application Segments | | |
|---|--|-----------------------------|
| Aerospace | | |
| Available Product Variants | | |
| Long Products* Plates | | |
| *) Presented data refer exclusively to long product | ts. Please observe the detailed explanations at the er | nd of the data sheet (pdf). |
| Product Description | | |
| BÖHLER N695 is typically used for parts requiring | resistance and good corrosion resistance in the hard hardness up to 58 HRC and resistance to wear, corro earings, but usage is not limited to such applications. | |
| Airmelted | | |
| Properties | | |
| > Toughness & Ductility: good > Wear Resistance: very high > Machinability: good > Dimensional stability: good > Polishability: good > Corrosion resistance: high Applications | | |
| AerospaceTurbine and Engine Parts (Aerosp) | > Other Aerospace Comps. | > Bearings |



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Technical data

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

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

Chemical composition (wt. %)

| С | Si | Mn | P | S | Cr | Мо | 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

| Annealed | |
|------------------------------|--|
| Hardness (HB) | max. 255 Bars max 69.85 mm diameter, cold finished |
| | |
| Annealed | |
| Hardness (HB) | max. 255 Bars above 69.85 mm diameter, hot or cold finished |
| | · |
| Annealed | |
| Tensile Strength (MPa ksi) | max. 896 130 Wire and Bars under 12.7 mm diameter, cold finished |

Round Bars and Wire Rod (if any)

| Diameter | | | MOQ | ex mill | Len | | | ngth | | | Tolerance | | | |
|----------|----|--------|-------|---------|-------|-------|-------|------|---|------|-----------|---|-------|-----------|
| ı | mn | n | i | ncl | า | kg | lbs | | m | | ft | | | |
| ROLLED | | | | | | | | | | | | | | |
| 5.01 | - | 12.49 | 0.197 | - | 0.492 | 1,000 | 2,205 | 3.00 | - | 4.00 | 9.84 | - | 13.12 | IT h/k 11 |
| 12.50 | - | 55.00 | 0.492 | - | 2.165 | 1,000 | 2,205 | 3.00 | - | 4.00 | 9.84 | - | 13.12 | IT h/k 11 |
| 55.01 | - | 69.00 | 2.166 | - | 2.717 | 1,300 | 2,866 | 3.00 | - | 4.00 | 9.84 | - | 13.12 | IT h/k 11 |
| 69.01 | - | 120.00 | 2.717 | - | 4.724 | 1,300 | 2,866 | 3.00 | - | 4.00 | 9.84 | - | 13.12 | IT h/k 11 |
| 120.01 | - | 130.00 | 4.725 | - | 5.118 | 1,200 | 2,646 | 3.00 | - | 4.00 | 9.84 | - | 13.12 | IT h/k 14 |

Long Products: For additional specifications, technical requirements, and other dimensions, please contact our regional voestalpine BÖHLER sales companies.

Sheet & Plates: Product Variant may differ in terms of melting process, technical data, delivery, and surface condition as well as available product dimensions. Please contact voestalpine BÖHLER Bleche GmbH & Co KG.

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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