

COLD WORK STEELS

Available Product Variants

[Long Products*](#)
[Plates](#)

*) Presented data refer exclusively to long products. Please observe the detailed explanations at the end of the data sheet (pdf).

Product Description

BÖHLER K313 corresponds to the material 1.2362 (X63CrMoV5 1). BÖHLER K313 is used for intermediate rolls in multi-roll stands, deburring dies and punches, cutting plates and punches, hot shears, ejection pins, drop-forging dies and hole punches.

Process Melting

[Airmelted](#)

Properties

- > Toughness & Ductility : good
- > Wear Resistance : good
- > Compressive strength : high
- > Dimensional stability : good

Applications

- > Machine knife (for producers)
- > Fine Blanking, Stamping, Blanking
- > Rolling
- > Rolls
- > Cold Forming

Technical data

Material designation	
1.2362	SEL
X63CrMoV5-1	EN

Chemical composition (wt. %)

C	Si	Mn	Cr	Mo	Ni
0.63	1.10	0.40	5.30	1.20	0.30

Material characteristics

	Compressive strength	Dimensional stability during heat treatment	Toughness	Wear resistance abrasive
BÖHLER K313	★★★★	★★★	★★★	★★★
BÖHLER K305	★★★★★	★★★	★★	★★★★★
BÖHLER K306	★★★★	★★★	★★★★★	★★★
BÖHLER K320	★★★	★★★	★★★	★★★
BÖHLER K329	★★★	★★★	★★★★★	★★★★★
BÖHLER K600	★	★★★	★★★★★	★
BÖHLER K601	★	★★★	★★★★★	★★
BÖHLER K605	★★	★★★	★★★★★	★

Delivery condition

Annealed

Hardness (HB)	max. 240
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Heat treatment

Annealing

Temperature	800 to 850 °C 1,472 to 1,562 °F	Slow controlled cooling in furnace at a rate of 50 to 68°F/hr (10 to 20°C/hr) down to approx. 600°C, further cooling in air.
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Stress relieving

Temperature	650 °C 1,202 °F	Slow cooling in furnace; intended to relieve stresses set up by extensive machining, or in complex shapes. After through heating, hold in neutral atmosphere for 1 to 2 hours.
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Hardening and Tempering

Temperature	980 to 1,020 °C 1,796 to 1,868 °F	Oil, salt bath from 842 to 932°F (450 to 500°C), air (small sizes only) Holding time after temperature equalization: 15 to 30 minutes. Obtainable hardness: approx. 62 HRC
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Long Products: For additional specifications and technical requirements, 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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ONE STEP AHEAD.