

COLD WORK STEELS

Available Product Variants

Long Products*	Plates

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

Product Description

BÖHLER K313 is 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** > Cold Forming > Machine knife (for producers) > Rolling > Rolls > Fine Blanking, Stamping, Blanking **Technical data** Material designation 1.2362 SEL X63CrMoV5-1 EN

Chemical composition (wt. %)

С	Si	Mn	Cr	Мо	Ni
0.63	1.10	0.40	5.30	1.20	0.30





BÖHLER K313

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

Hardness (HB) max. 240	Annealed	
	Hardness (HB)	max. 240

Heat treatment

Temperature	800 to 850 °C 1,472 to 1,562 °F	Slow controlled cooling in furnace at a rate of 10 to 20 °C/hr (18 to 36 °F/hr) down to approximately 600 °C (1112 °F) Further cooling in air.
Stress relieving		
Stress relieving		After through heating, hold in neutral atmosphere for 1-2 hours. Slow cooling in furnace

Hardening and Tempering

		Quenching: Oil, salt bath (450 to 500 °C 842 to 932 °F), air (small sizes only) Holding time after temperature equalization: 15 to 30 minutes.
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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 BOHLER 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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