ACEROS PARA TRABAJO EN FRÍO

Formatos disponibles

Productos largos* | Chapas

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

Descripción

BÖHLER K320 corresponds to the material 1.2355 (50CrMoV13 -15, S7). According to the AISI classification system, this tool steel belongs to the group of impact-resistant tool steels (S types). This popular tool steel offers high toughness and good machinability with moderate wear resistance. BÖHLER K320 is used in cold and hot work applications as well as in plastic mold making. This tool steel is used for a wide range of tools where impact strength, good machinability and simple heat treatment are important.

Método de obtención

Convencional

Propiedades

- Dureza y Ductilidad : buena
- Resistencia al desgaste : buena
- Resistencia a la compresión : buena
- Estabilidad dimensional : buena

Aplicaciones

- Cuchillas de máquinas (fabricantes)
- Corte fino / Troquelado / Estampado
- Laminación
- Compactación de polvo
- Conformado en frío

Datos técnicos

Designación	
~1.2357	SEL
~50CrMoV13-14	EN
S7	AISI

Composición Química

C	Si	Mn	Cr	Mo	V
0,53	0,30	0,60	3,25	1,45	0,25

Características

	Resistencia a la compresión	Estabilidad dimensional durante el tratamiento térmico	Tenacidad	Resistencia al desgaste abrasivo
BÖHLER K320	★★★	★★★	★★★	★★★
BÖHLER K305	★★★★★	★★★	★★	★★★★★
BÖHLER K306	★★★★	★★★	★★★★	★★★
BÖHLER K313	★★★★	★★★	★★★	★★★
BÖHLER K329	★★★	★★★	★★★★	★★★★
BÖHLER K600	★	★★★	★★★★★	★
BÖHLER K601	★	★★★	★★★★	★★
BÖHLER K605	★★	★★★	★★★★	★

Estado de suministro

recocido

Dureza (HB)	máx. 225

Tratamiento térmico

Recocido

Temperatura	820 a 850 °C	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.

Alivio de tensiones

Temperatura	600 a 650 °C	After through heating, hold in neutral atmosphere for 1-2 hours. || Slow cooling in furnace || Intended to relieve stresses caused by extensive machining or in complex shapes.

Temple y revenido

Temperatura	930 a 950 °C	Quenching: Oil, air. || Holding time after temperature equalization: 15 to 30 minutes.

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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voestalpine
ONE STEP AHEAD.