

KOUDVERVORMSTAAL

Beschikbare uitvoeringen

Stafstaal*

Plaat

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

Product omschrijving

Koudschaarmessen, in het bijzonder voor het snijden van schroot, trekklauwen, stamp- en buig gereedschap.

Smeltroute

Airmelted

Eigenschappen

- > Taaiheid & Vervormbaarheid : hoog
- > Dimensionale stabiliteit : goed

Toepassingen

- > Machinale messen (voor fabrikanten)
- > Fijn stanswerk / ponsen / stampen
- > Componenten voor de recyclingindustrie
- > Cold Forming
- > Standaardonderdelen (matrijzen, platen, pennen, ponsen)
- > Coining
- > Algemene componenten voor werktuigbouw

Technische gegevens

Materiaal aanduiding	
1.2746	SEL
~ 45NiCrMoV16-6	EN

Chemische samenstelling

C	Si	Mn	Cr	Mo	Ni	V
0,45	0,30	0,80	1,50	0,80	4,00	0,50

Materiaaleigenschappen

	Drukbelastingcapaciteit	Dimensionale stabiliteit tijdens warmtebehandeling	Taaheid	Slijtvast abrasief
BÖHLER K601	★	★★★	★★★★★	★★
BÖHLER K305	★★★★★	★★★	★★	★★★★★
BÖHLER K306	★★★★★	★★★	★★★★★	★★★
BÖHLER K313	★★★★★	★★★	★★★	★★★
BÖHLER K320	★★★	★★★	★★★	★★★
BÖHLER K329	★★★	★★★	★★★★★	★★★★★
BÖHLER K600	★	★★★	★★★★★	★
BÖHLER K605	★★	★★★	★★★★★	★

Leveringsconditie

gegloeid

Hardheid (HB)	max. 295
---------------	----------

Warmtebehandeling

Annealing

Temperatuur	610 naar 650 °C	Slow controlled cooling in furnace at a rate of 50 to 68°F/hr (10 to 20°C/hr) down to approx. 1112°F (600°C), further cooling in air.
-------------	-----------------	---

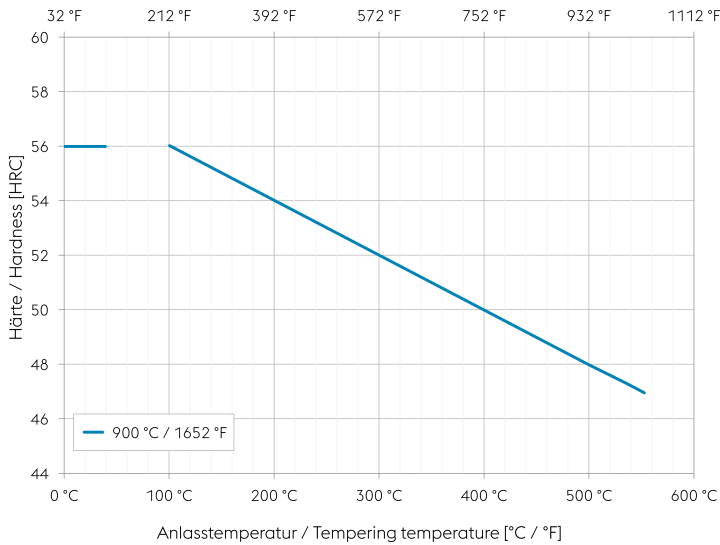
Stress relieving

Temperatuur	650 °C	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 1-2 hours..
-------------	--------	--

Harden en ontlaten

Temperatuur	880 naar 910 °C	Oil, salt bath 572 to 752°F (300 to 400°C), air. Holding time after temperature equalization: 15 to 30 minutes. After hardening, tempering to the desired working hardness, see tempering chart.
-------------	-----------------	--

Tempering chart



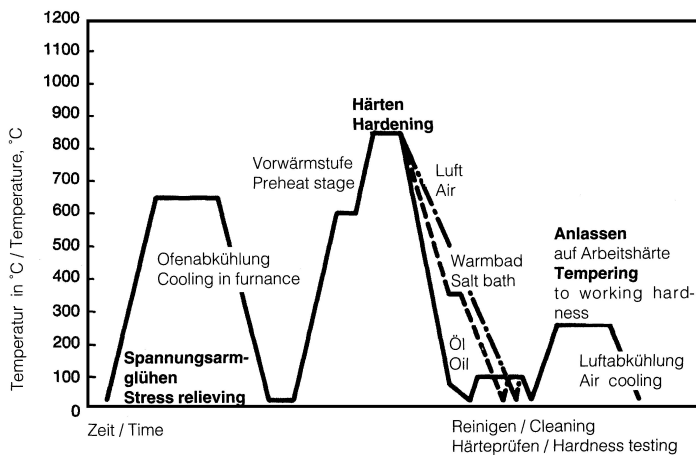
Tempering:

Hardening temperature:

900°C/1652°F

Specimen size: square 20 mm

Heat treatment sequence



Fysische eigenschappen

Temperatuur (°C)	20
Soortelijk gewicht (kg/dm ³)	7,85
Thermische conductiviteit (W/(m.K))	28
Soortelijke warmte (kJ/kg K)	0,46
Specifieke elektrische weerstand (Ohm.mm ² /m)	0,3
Elasticiteitsmodus (10 ³ N/mm ²)	210

Thermische expansie

Temperatuur (°C)	100	200	300	400	500
Thermische expansie (10 ⁻⁶ m/(m.K))	11	12,5	13	13,5	14

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.