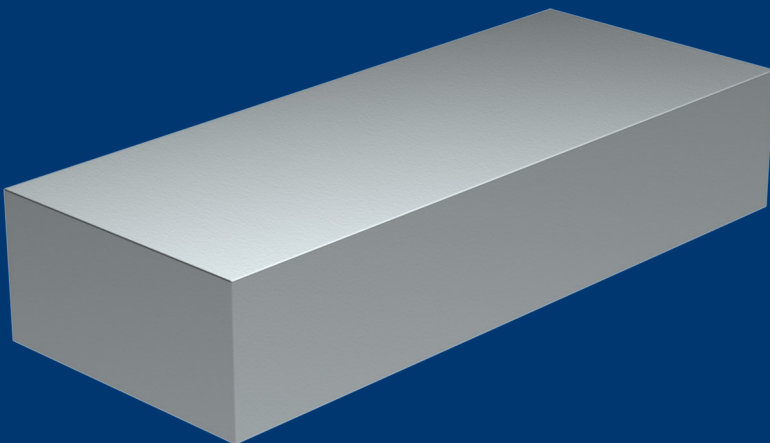


DATA SHEET

SIMOLD^{...}

2083R



W.NR.: 1.2083 ESR
EN / DIN: X40Cr14
AISI: ~ 420

CHEMICAL COMPOSITION

C	Si	Mn	Cr	Mo
0.42	0.40	0.30	13.00	0.20

ULTRASOUND EXAMINATION

EN 10228-3 art.2-4,
 SEP1921 E/e

DELIVERY CONDITION

soft annealed with a hardness of <230 HB

PROCESS

electro slag remelted - ESR

HEAT TREATMENT

soft annealing	cooling	hardness (HB)
760-800 °C	furnace	<230
hardening	quenching	hardness (HRC)
1000-1050 °C	oil, thermal bath 500-550 ° C	55-57

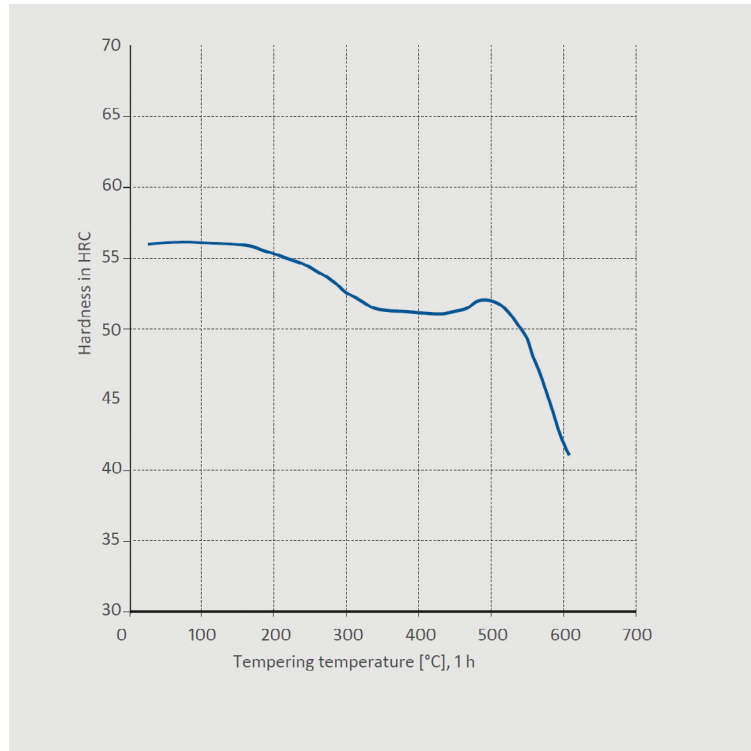
PROPERTIES

This is a stainless martensitic steel with a high content of Cr. Steel for the processing of plastics, corrosion resistant and with excellent polishing properties. Suitable for texturing. Very good wear resistance with medium toughness. High compressive strength. Smaller cross-sections can also be hardened in the open air. Good machining properties. When the most demanding polishing characteristics and large cross-sections are needed.

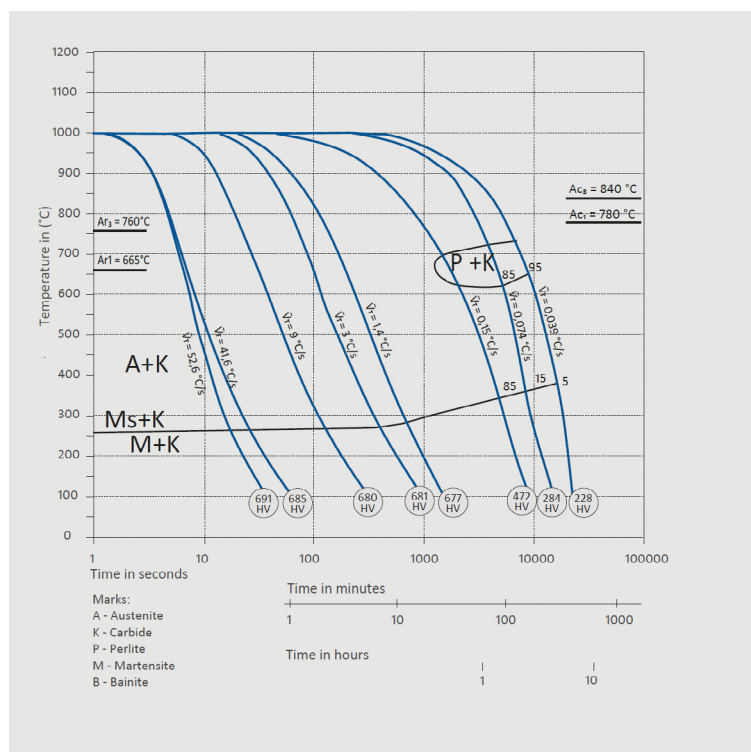
APPLICATION

Mould for processing plastic, for corrosion-aggressive plastics such as PVC. For plastics with abrasive filler. For inserts, especially suitable in combination with the SIMOLD 2085/SIMOLD S771 steel. Tools for the manufacture of lenses. General cutting tools, surgical blades, instruments.

TT



CCT



DISCLAIMER

The information and data presented herein are typical or average values and are not a guarantee of maximum or minimum values. Applications specifically suggested for material described herein are made solely for the purpose of illustration to enable the reader to make his own evaluation and are not intended as warranties, either express or implied, of fitness for these or other purposes. There is no representation that the recipient of this literature will receive updated editions as they become available.