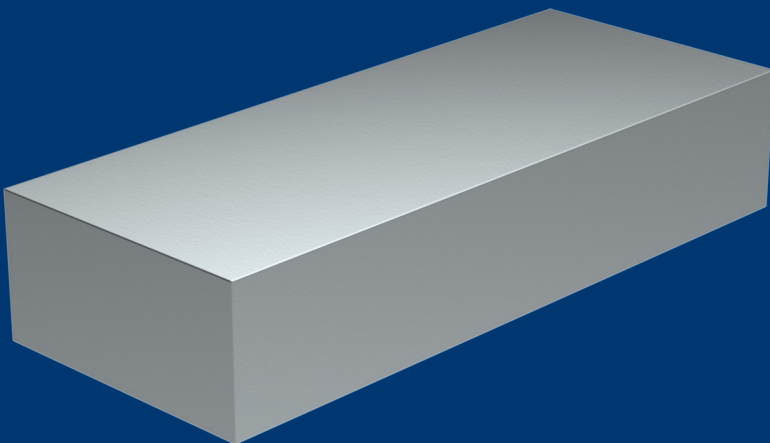


DATA SHEET

SIMOLD^{...}

2312



W.NR.: 1.2312

EN / DIN: 40CrMnMoS8-6

AISI: ~ P20 + S

CHEMICAL COMPOSITION

C	Si	Mn	Cr	Mo	S
0.40	0.40	1.50	1.90	0.20	0.075

ULTRASOUND EXAMINATION

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

DELIVERY CONDITION

quenched and tempered at 280-325 HB

PROCESS

conventional

HEAT TREATMENT

soft annealing	cooling	hardness (HB)
710-740 °C	furnace	<230
hardening	quenching	hardness (HRC)
830-880 °C	oil, warm bath 180-220 ° C	51

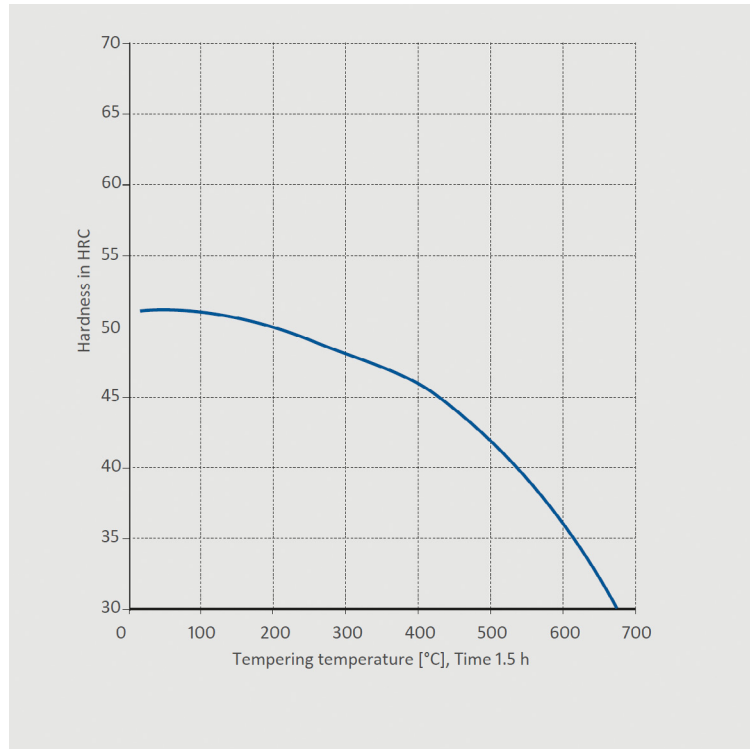
PROPERTIES

Quenched and tempered tool steel with a uniform martensitic-bainitic microstructure. Good machinability due to its S content (better than that of SIMOLD 2311). Good resistance to embossing. Can be nitrated to prevent erosion and increase corrosion resistance. Can be surface-hardened through induction or by flame. For lower thermal stresses. Caution should be exercised by EDM, texturing and polishing.

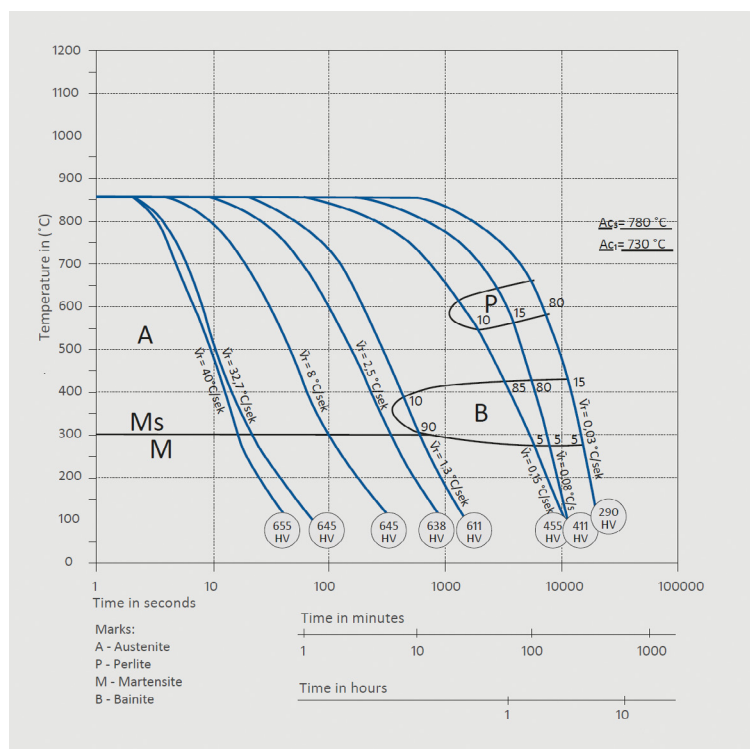
APPLICATION

Tools for plastics and rubber with low surface polishing needs.
Mould frames for plastic and pressure casting moulds.

TT



CCT



DISCLAIMER

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