HASCO®

1.2312

Material no.:	1.2312			
Abbreviated DIN name:	40 Cr	MnMoS	S 8-6	
Chemical analysis (%):	С	Mn	S	Cr
	0,4	1,5	0,07	1,9

Characteristics

Material properties:

This material should be used in its supplied condition. There is consequently no need to harden the finished parts. Good machinability due to the high sulphur content.

Uses: Cavity plates and frame plates for compression moulds and injection moulding tools . Tool components subjected to high pressures. Other uses in mouldmaking where relatively high strength is specified without subsequent heat treatment. For higher surface requirements, please contact us direct.

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Polishing:	Not usual because of the high sulphur content.
Graining:	Not usual because of the high sulphur content.
Nitriding:	Possible, improves the wear resistance of the surface.
Hardening:	Not usual because material is used in its supplied condition.
Soft annealing:	Not usual.
Stress-relief annealing:	To eliminate residual stress after coarse machining at max. 480°C, approx. 4 h with slow furnace cooling.

Time-temperature conversion chart



Material data sheet

HASCO colour code:	brown
Flat steel:	yellow

Hardness when supplied:

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0,2

annealed to max. 280 - 325 HB (~950- 1100 N/mm²)

Physical properties

Thermal expansion coefficient $(10^{-6} \cdot m)/(m \cdot K)$

100	200	300	400	500	600	700	°C
12,2	12,9	13,5	13,9	14,2	14,5	14,8	

Thermal conductivity	20	350	700	°C
W∕(m·K)	34,5	33,5	32,0	

Tempering chart

