

1.2312

40CrMnMoS8-6

PLASTIC MOLD STEEL

APPLICATION

Large and medium-sized moulds for plastic processing, mould frames for the injection moulding and die casting industries, components for general mechanical engineering. Large mold bodies and mold inserts for plastics and pressure molds where high polishability is not required.

CHEMICAL COMPOSITION

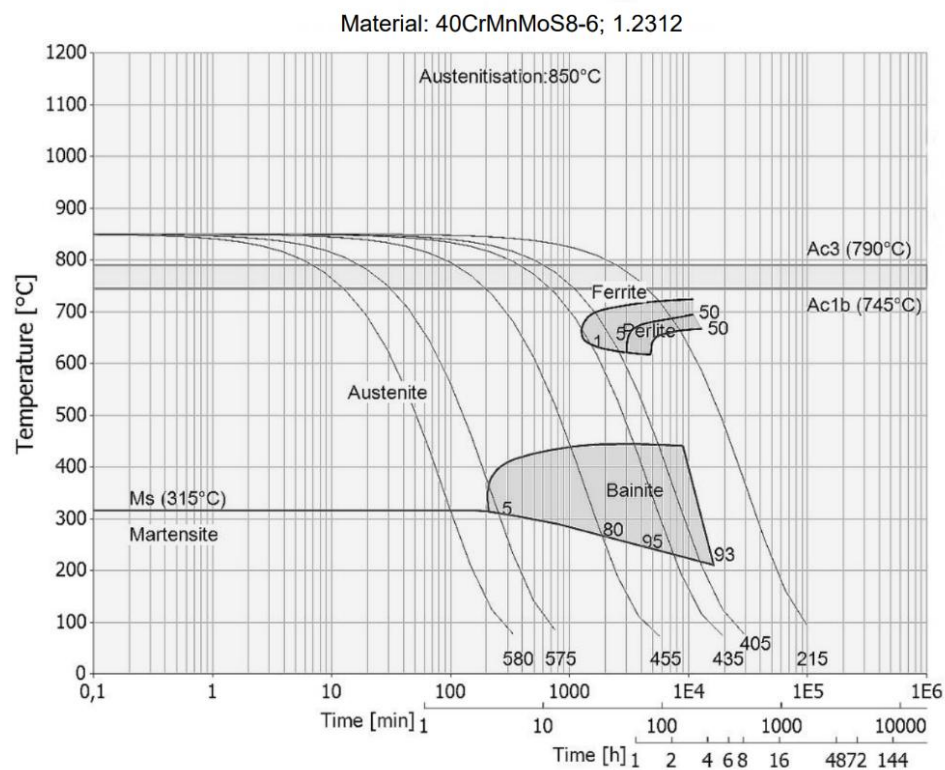
Chemical composition (in weight %)

Element	C	Si	Mn	P	S	Cr	Mo
min	0.35	0.30	1.40	max	0.05	1.80	0.15
max.	0.45	0.50	1.60	0.03	0.10	2.00	0.25

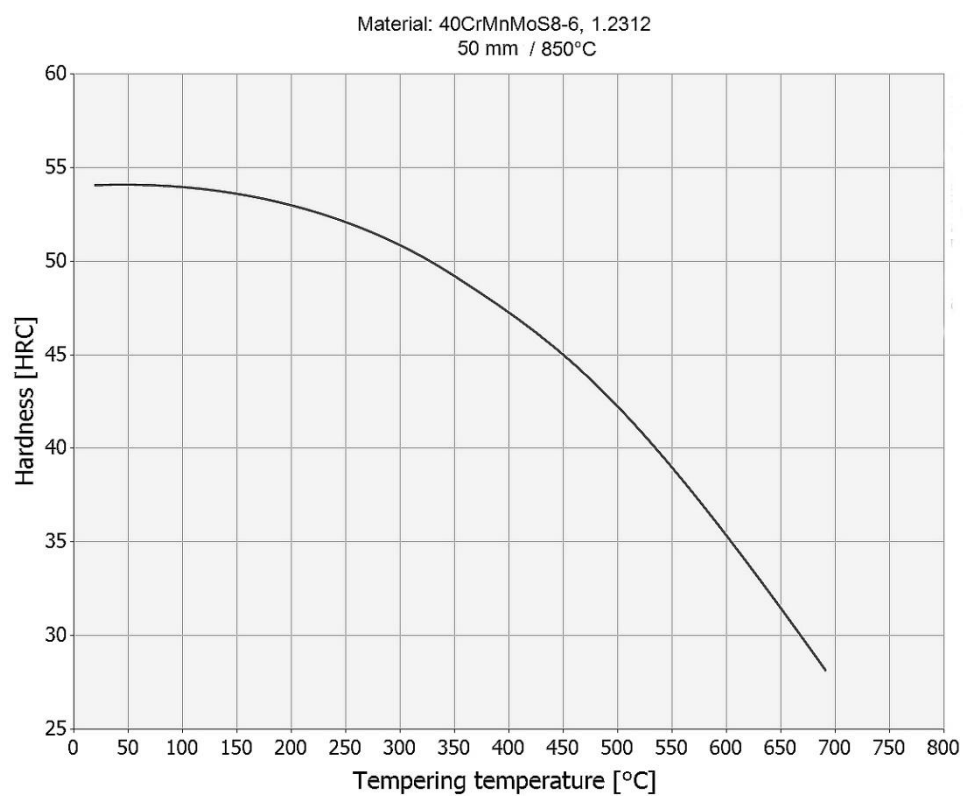
TREATMENT

Normalizing	850 - 900°C / Air Cooling
Annealing	720 - 740°C / max. 230 HB
Stress relieving	650 - 680°C
Preheating	350°C / depending on dimension
Hardening	840 - 880°C / oil, air
Obtainable hardness	ok. 54 HRC

CONTINUOUS COOLING TRANSFORMATION (CCT) DIAGRAM



TEMPERING DIAGRAM



NOTE: All technical information is for reference only