

1.2550

60WCrV8 / NZ3

COLD WORK TOOL STEEL

APPLICATION

Cutting tools for the processing of plate, cold punches and shear blades, woodworking, coining and pneumatic tools, hot work tools for use at moderate heat. Dies, bending molds, tools for woodworking, guillotine blades, chisels for pneumatic hammers.

CHEMICAL COMPOSITION

Skład chemiczny (%wag.)

Element	C	Si	Mn	P	S	Cr	W	V
min	0.55	0.70	0.15	max	max	0.90	1.70	0.10
max	0.65	1.00	0.45	0.03	0.03	1.20	2.20	0.20

TREATMENT

Hardening	910°C ± 10°C / oil
Tempering	180°C ± 10°C (see tempering diagram)
Hardness [HRC]	min. 58

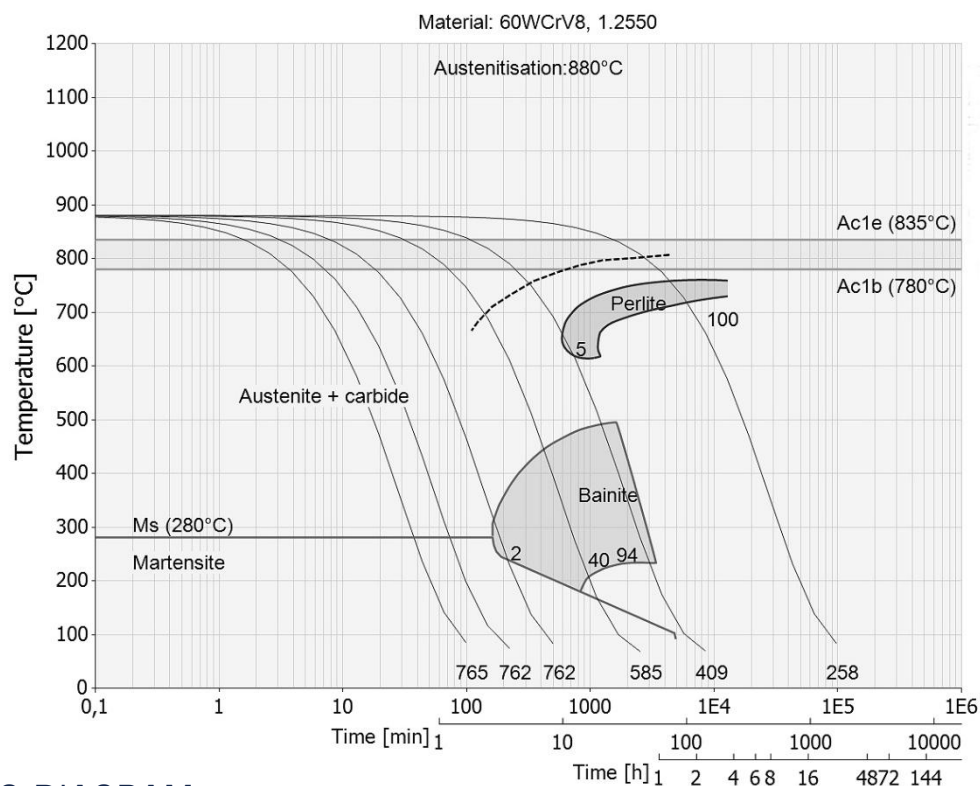
ADDITIONAL HEAT TREATMENT

Soft annealing	710 - 750°C
Stress relieving	650 - 680°C (only for soft delivery conditions)
Additional quenching media	Hot bath 180 - 220°C

MECHANICAL PROPERTIES

Condition	Soft annealed (+A)	Annealed and cold drawn (+A+C)
Hardness [HB]	max. 229	max. 249

CONTINUOUS COOLING TRANSFORMATION (CCT) DIAGRAM



TEMPERING DIAGRAM

