

Material No.: Code:
1.2550 60WCrV8

DE - Brand:
Hidalgo I

Chemical composition

(Typical analysis in %)

C	W	Cr	V				
0,60	2,00	1,00	0,15				

Steel properties

Cold work steel with very good toughness, dimensionally stable, impact resistant, high hardening capacity. Similar to AISI S1.

Applications

Cold shear knives, paper and wood cutting knives, cutting tools for plates up to 10 mm, ejector pins, air hammers.

Condition of delivery

Soft annealed to max. 229 HB

Physical properties

Thermal expansion coefficient

$\left[\frac{10^{-6} \cdot \text{m}}{\text{m} \cdot \text{K}} \right]$	20-100°C	20-200°C	20-300°C	20-400°C
	10,9	11,5	12,0	12,4

Thermal conductivity

$\left[\frac{\text{W}}{\text{m} \cdot \text{K}} \right]$	20°C	350°C
	31,9	29,6

Heat treatment

Soft annealing

Temperature	Cooling	Hardness
720 - 760°C	furnace	max. 229 HB

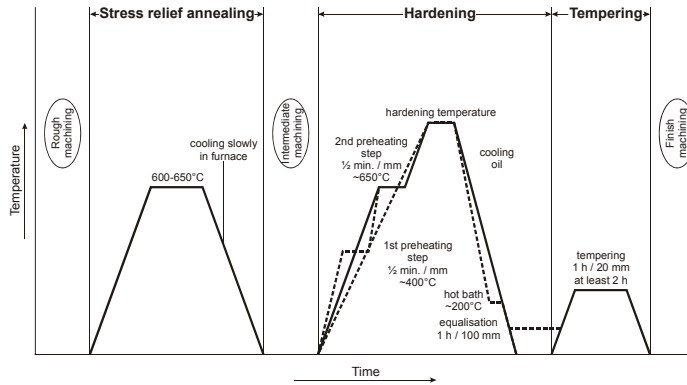
Stress relief annealing

Temperature	Cooling	
600 - 650°C	furnace	

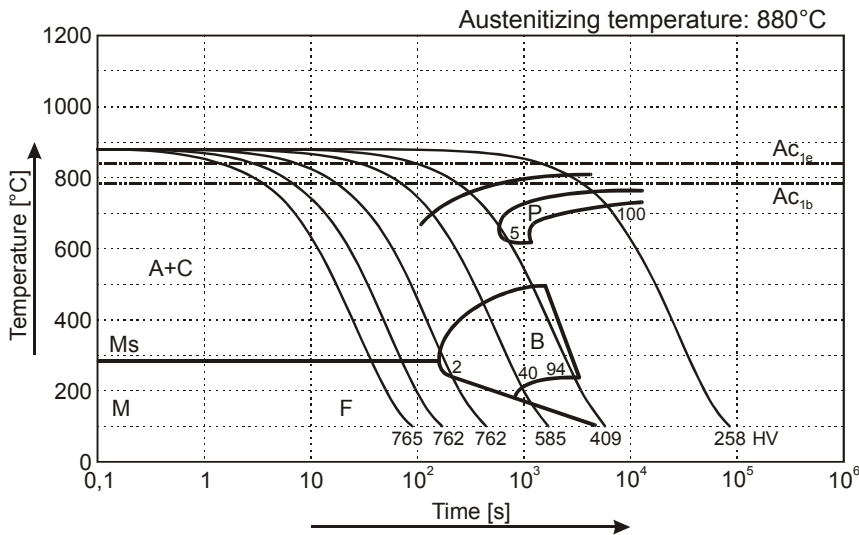
Hardening

Temperature	Cooling	Tempering
860 - 900°C	oil or hot bath 180 - 220°C	see tempering diagram

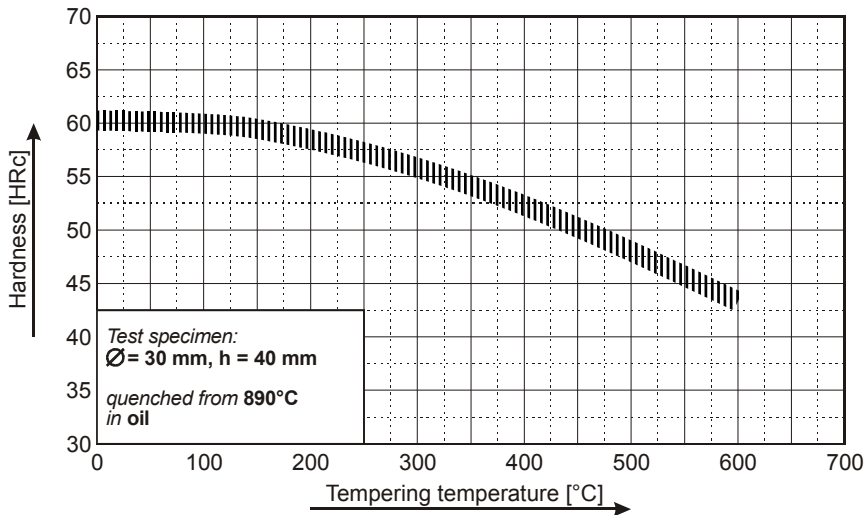
(1.2550) Thermal Cycle Diagram



Continuous Cooling Transformation Diagram (CCT)



Tempering Diagram



Remarks: All technical information is for reference only.