

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	$\left[ \frac{10^{-6} \text{ m}}{\text{m K}} \right]$	20-100°C	20-200°C	20-300°C	20-400°C
		10,9	11,5	12,0	12,4
Thermal conductivity	$\left[ \frac{\text{W}}{\text{m K}} \right]$	20°C	350°C		
		31,9	29,6		

**Heat treatment:**

Soft annealing

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

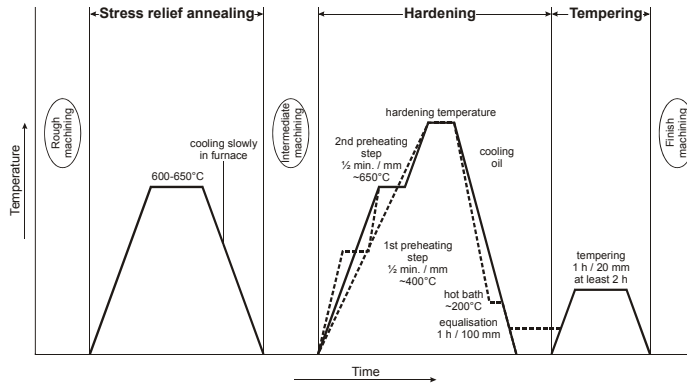
Stress relief annealing

Temperature	Cooling	
600 - 650°C	furnace	

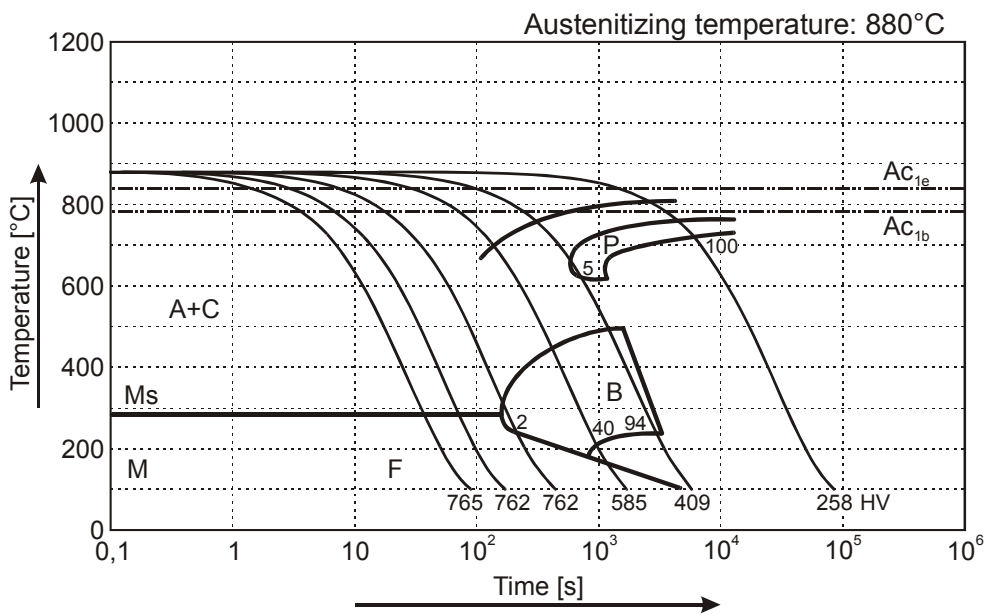
Hardening

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

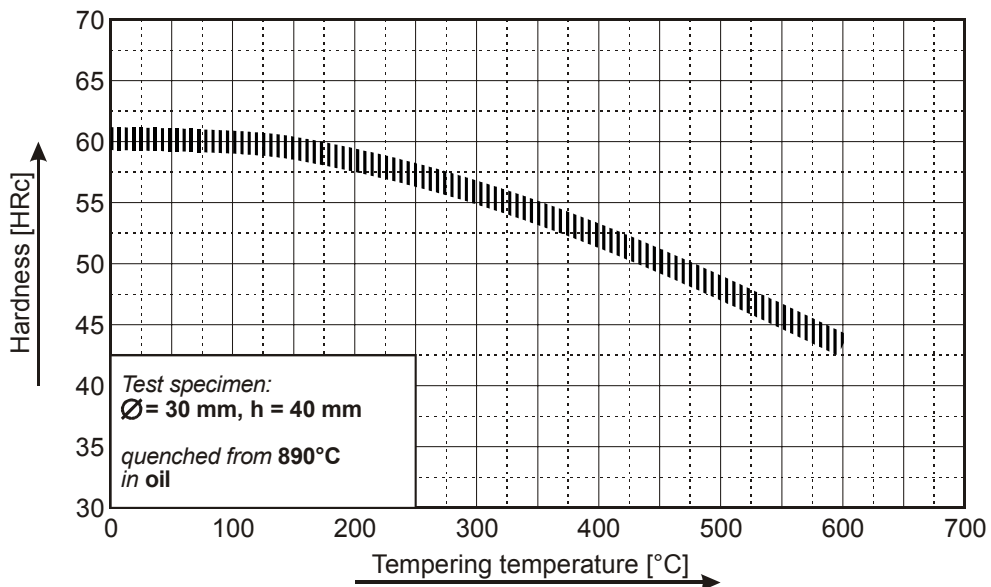
## (1.2550) Thermal Cycle Diagram



## Continuous Cooling Transformation Diagram (CCT)



## Tempering Diagram



Remarks: All technical information is for reference only.