



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

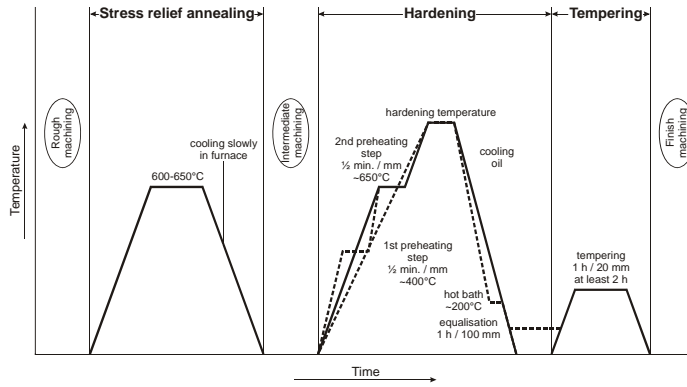
**Physical properties:**

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		

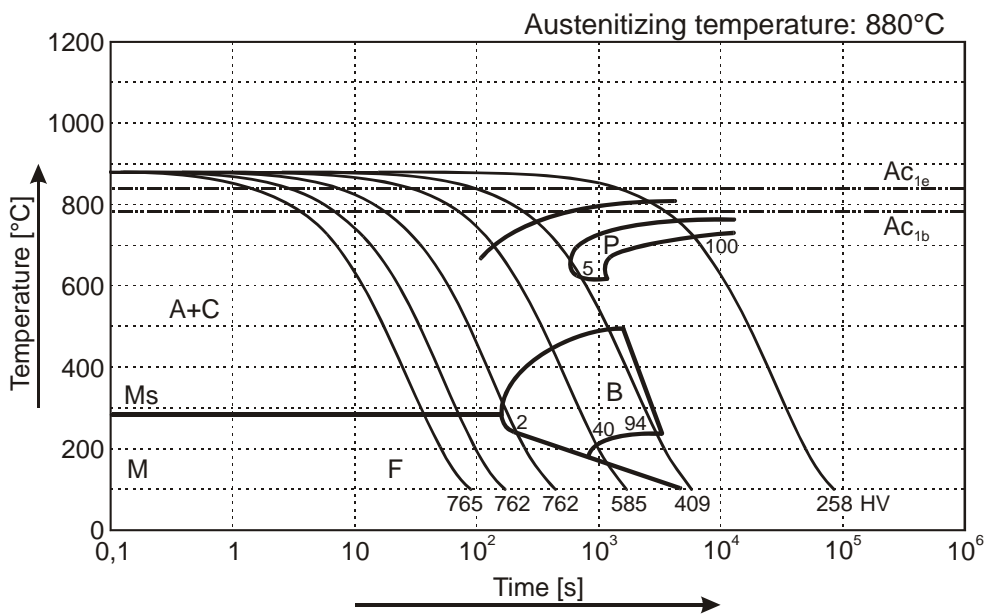
**Heat treatment:**

Soft annealing	<table border="1"><thead><tr><th>Temperature</th><th>Cooling</th><th>Hardness</th></tr></thead><tbody><tr><td>720 - 760°C</td><td>furnace</td><td>max. 229 HB</td></tr></tbody></table>	Temperature	Cooling	Hardness	720 - 760°C	furnace	max. 229 HB
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Stress relief annealing	<table border="1"><thead><tr><th>Temperature</th><th>Cooling</th><th></th></tr></thead><tbody><tr><td>600 - 650°C</td><td>furnace</td><td></td></tr></tbody></table>	Temperature	Cooling		600 - 650°C	furnace	
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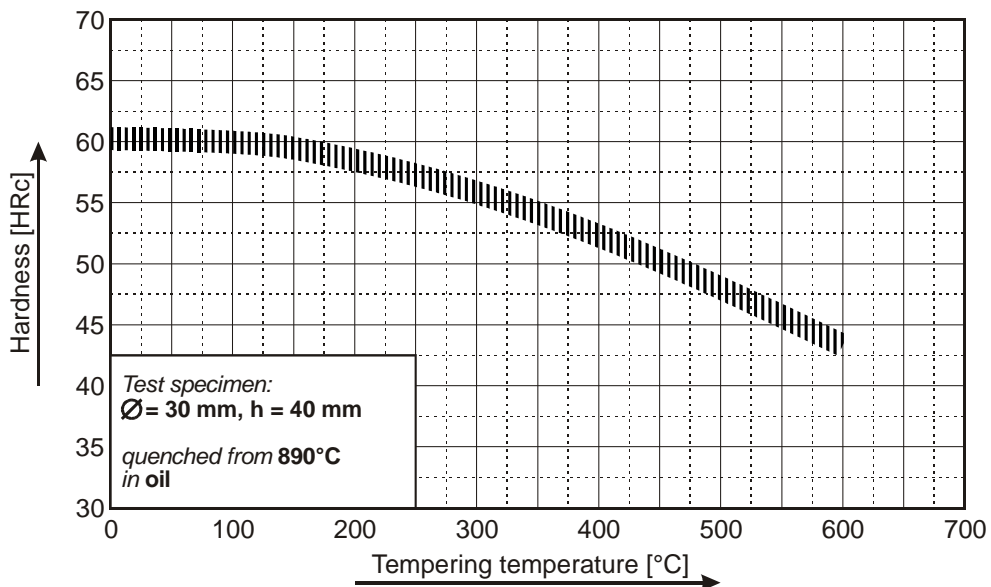
## (1.2550) Thermal Cycle Diagram



## Continuous Cooling Transformation Diagram (CCT)



## Tempering Diagram



Remarks: All technical information is for reference only.