

Material No.: Code:  
**1.2067 102Cr6**

DE - Brand:  
**PV6**

**Chemical composition:**  
 (Typical analysis in %)

C	Cr						
1,00	1,50						

**Steel properties:**

Oil hardening steel with good hardening capability, good wear resistance, shallow depth of hardness.

**Applications:**

Gauges and measuring tools, mandrels, cold rolls and flanging rolls, wood and paper working tools, pressure rolls, ball bearings, guillotine and shear knives

**Condition of delivery:**

Soft annealed to max. 223HB

**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
		12,3	13,4	13,8	14,1
Thermal conductivity	$\left[ \frac{\text{W}}{\text{m} \cdot \text{K}} \right]$	20°C	350°C	700°C	
		32,8	32,2	31,9	

**Heat treatment:**

Soft annealing

Temperature	Cooling	Hardness
720 - 750°C	furnace	max. 223 HB

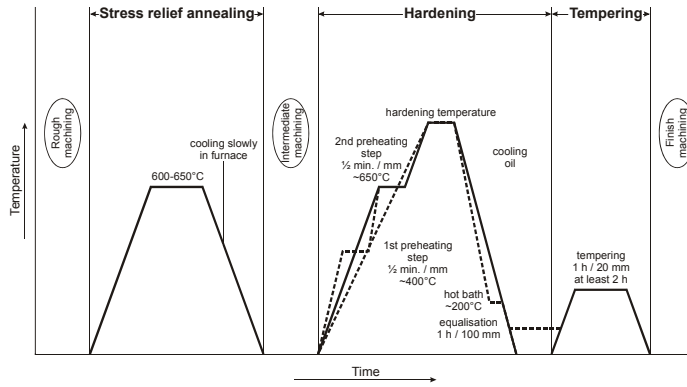
Stress relief annealing

Temperature	Cooling	
600 - 650°C	furnace	

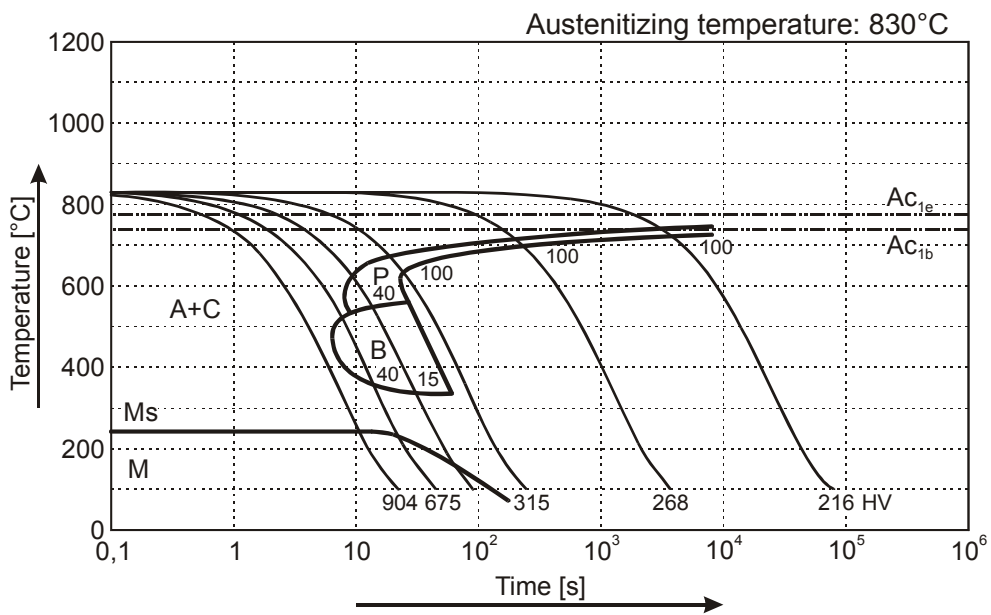
Hardening

Temperature	Cooling	Tempering
830 - 870°C	oil or hot bath 180 - 220°C	see tempering diagram

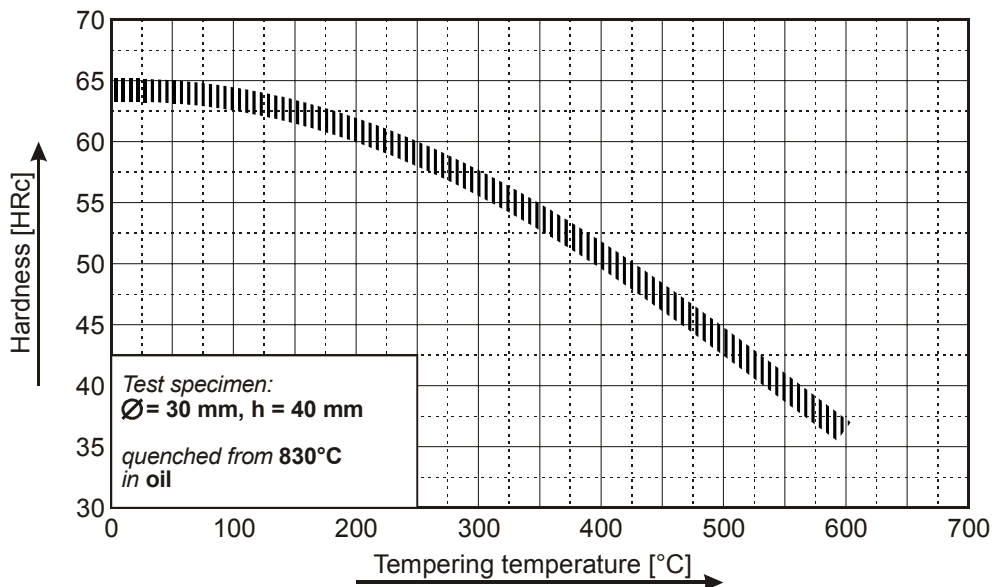
## (1.2067) Thermal Cycle Diagram



## Continuous Cooling Transformation Diagram (CCT)



## Tempering Diagram



Remarks: All technical information is for reference only.