



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. 223 HB

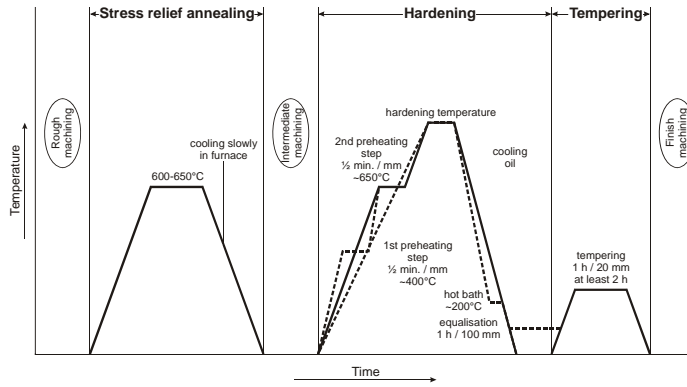
Physical properties:

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
		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	

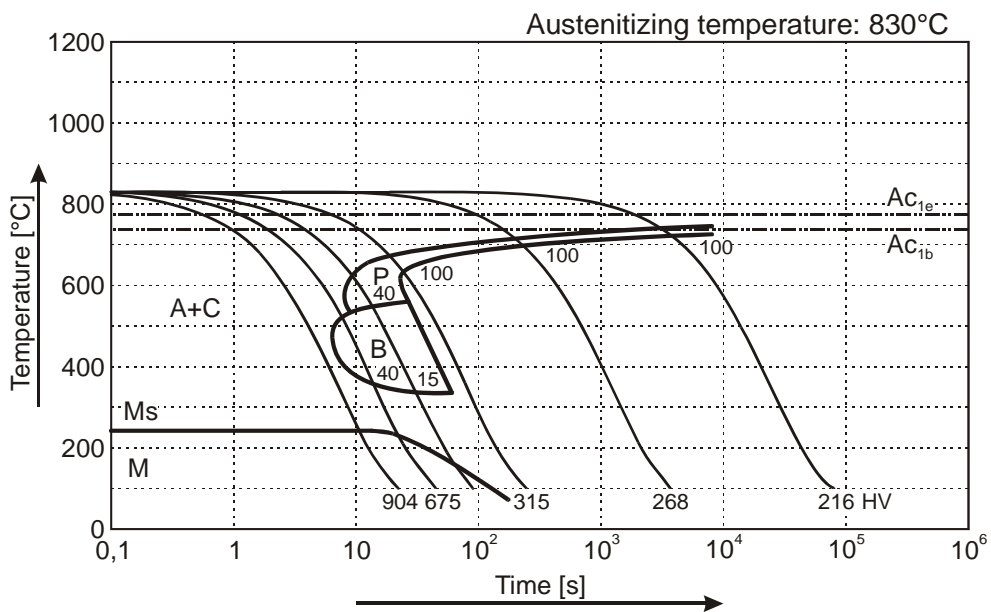
Heat treatment:

Soft annealing	<table border="1"><tr><th>Temperature</th><th>Cooling</th><th>Hardness</th></tr><tr><td>720 - 750°C</td><td>furnace</td><td>max. 223 HB</td></tr></table>	Temperature	Cooling	Hardness	720 - 750°C	furnace	max. 223 HB
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Stress relief annealing	<table border="1"><tr><th>Temperature</th><th>Cooling</th><th></th></tr><tr><td>600 - 650°C</td><td>furnace</td><td></td></tr></table>	Temperature	Cooling		600 - 650°C	furnace	
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Hardening	<table border="1"><tr><th>Temperature</th><th>Cooling</th><th>Tempering</th></tr><tr><td>830 - 870°C</td><td>oil or hot bath 180 - 220°C</td><td>see tempering diagram</td></tr></table>	Temperature	Cooling	Tempering	830 - 870°C	oil or hot bath 180 - 220°C	see tempering diagram
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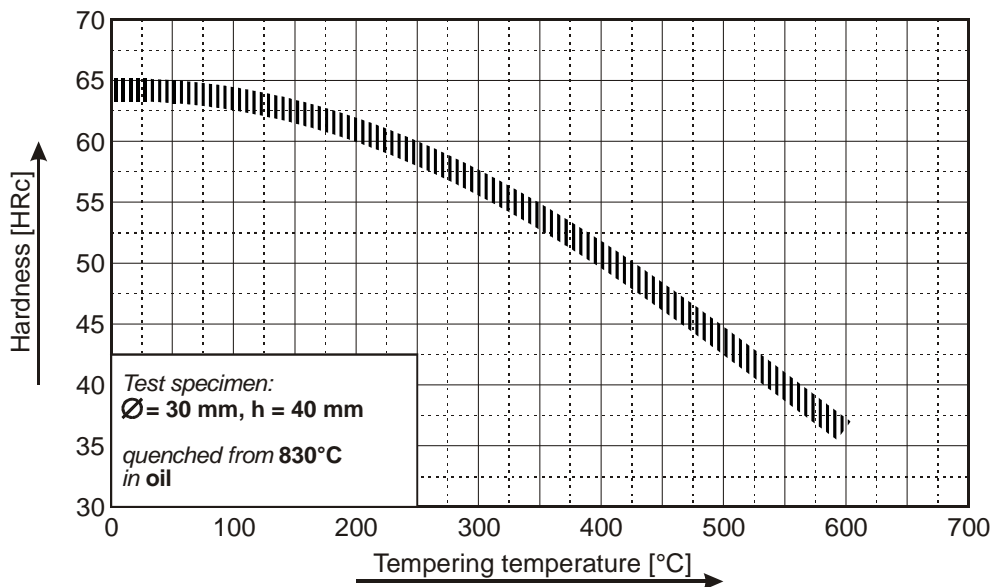
(1.2067) Thermal Cycle Diagram



Continuous Cooling Transformation Diagram (CCT)



Tempering Diagram



Remarks: All technical information is for reference only.