Doerrenberg

Material No.: 1.2067 Code: 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

$\left[\frac{10^{-6}\cdot m}{m \cdot K}\right]$	20-100°C	20-200°C	20-300°C	20-400°C
	12,3	13,4	13,8	14,1

Thermal conductivity

$\left[\frac{W}{m \cdot K}\right]$	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	

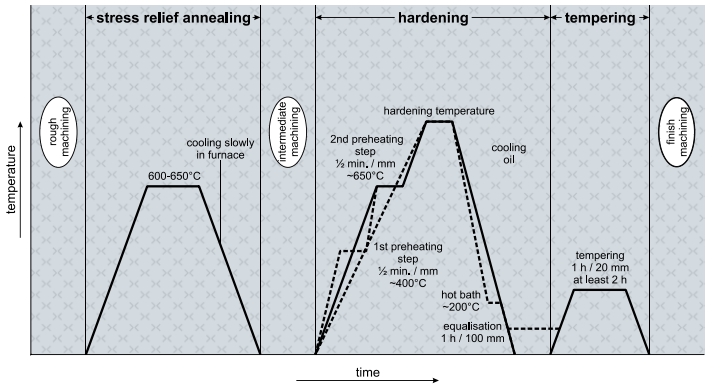
Hardening

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

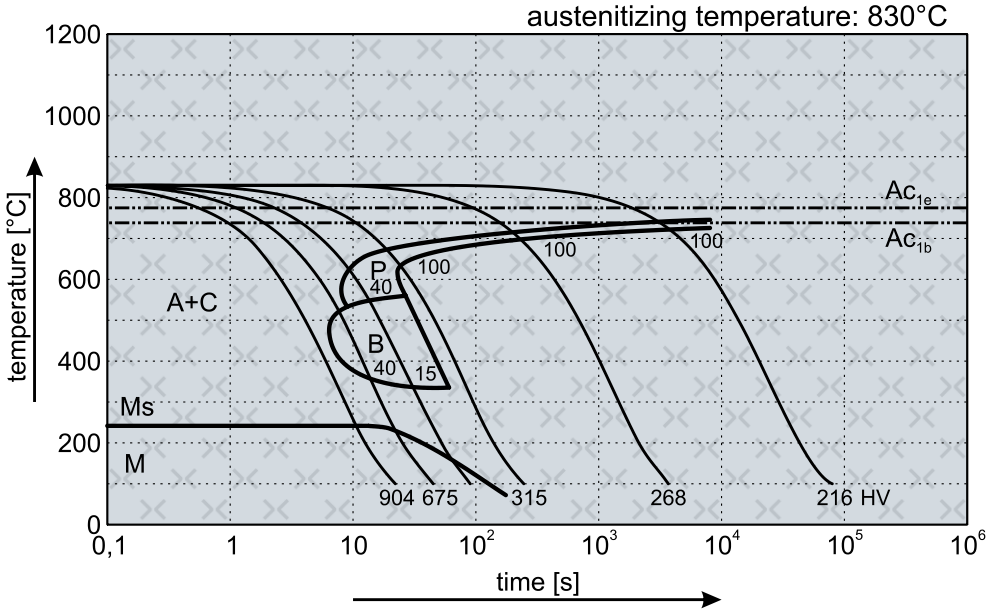
02/24

Dörrenberg Edelstahl GmbH · Hammerweg 7 · D-51766 Engelskirchen
Tel.: +49 22 63 / 79 1 · Fax: +49 22 63 / 79 20 5 · www.doerrenberg.de

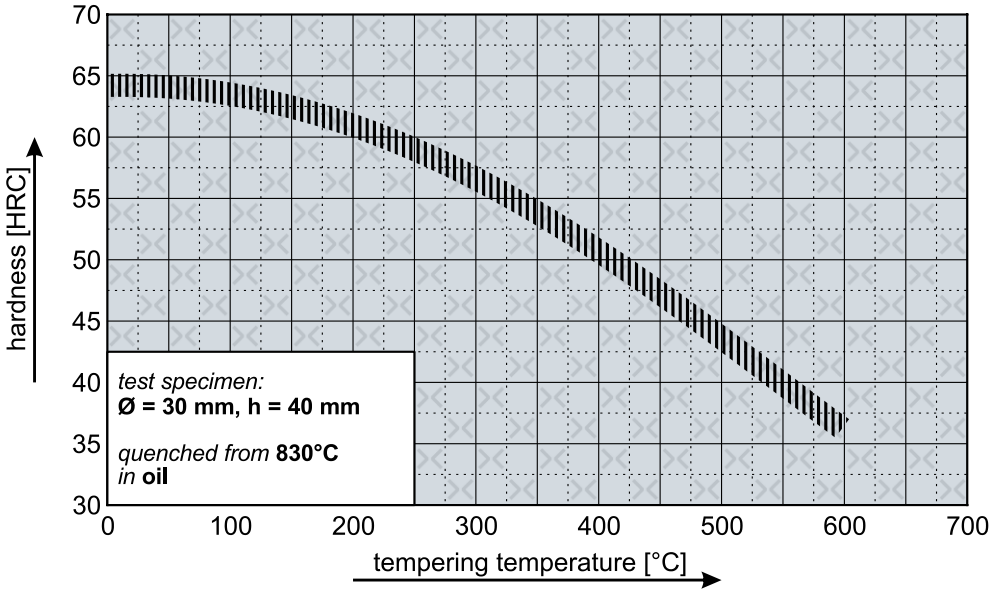
(1.2067) Thermal Cycle Diagram



Continuous Cooling Transformation Diagram (CCT)



Tempering Diagram



Remarks: All technical information is for reference only.