

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

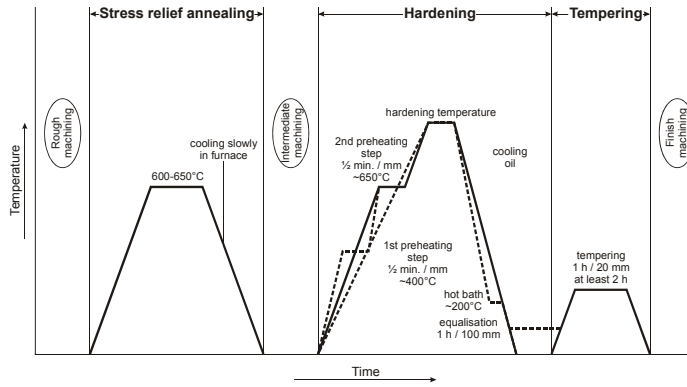
Physical properties:

| | | | | | |
|-------------------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|
| 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 | |

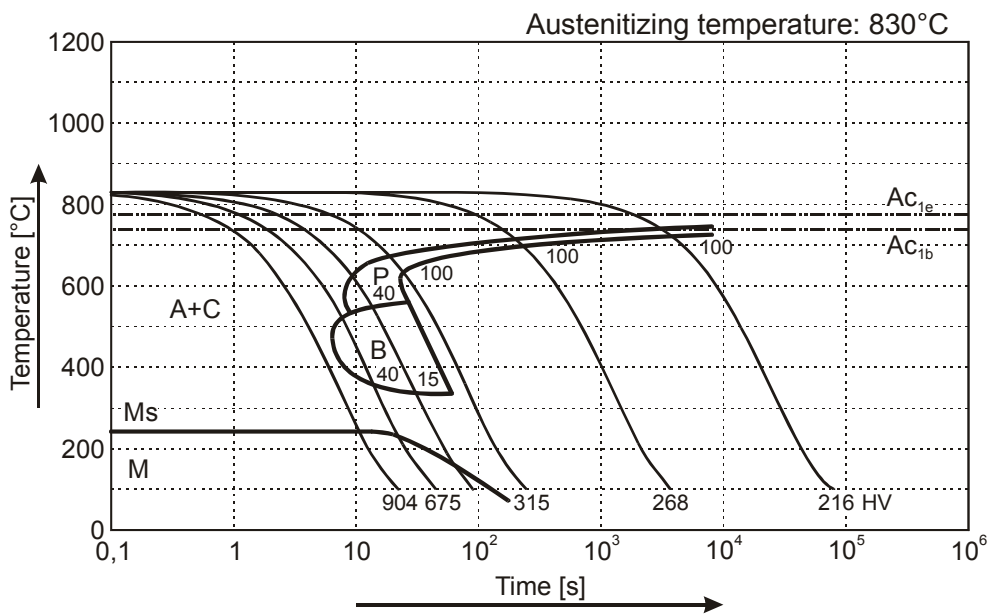
Heat treatment:

| | | | |
|-------------------------|--------------------|--------------------------------|-----------------------|
| 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 |

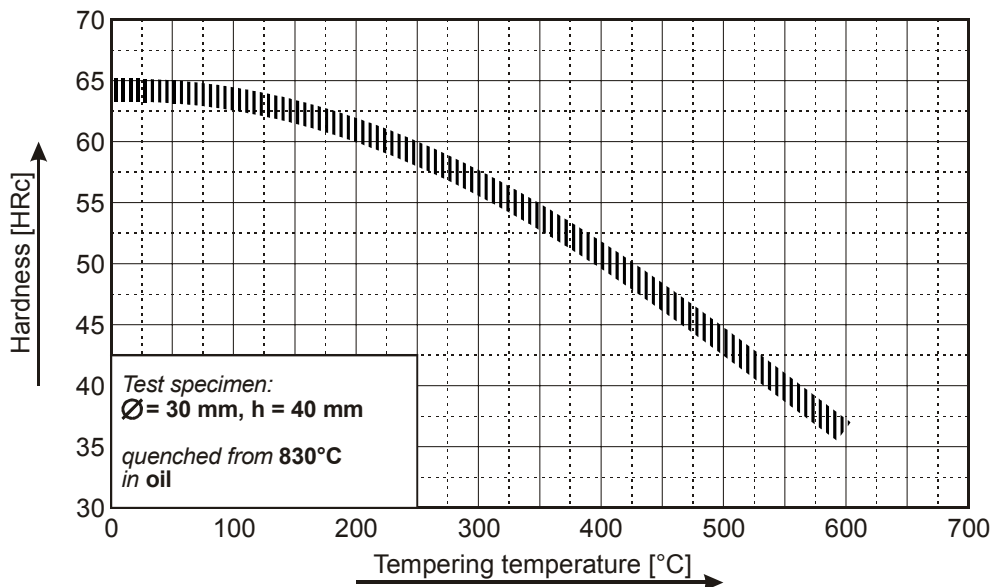
(1.2067) Thermal Cycle Diagram



Continuous Cooling Transformation Diagram (CCT)



Tempering Diagram



Remarks: All technical information is for reference only.