



Material No.: Code:
1.2363 X100CrMoV5

DE - Brand:
P5M

Chemical composition:
(Typical analysis in %)

C	Cr	Mo	V				
1,00	5,30	1,10	0,25				

Steel properties:

Medium alloyed cold work steel with 1% Carbon, high achievable hardness, high through hardenability, good dimensional stability, excellent compressive strength, good toughness, high wear resistance.

Applications:

Shear blades, cutting punching stamping, bending tools, form rolls, cold pilger mandrels, moulds for plastic processing, embossing dies.

Condition of delivery:

Soft annealed to max. 241 HB

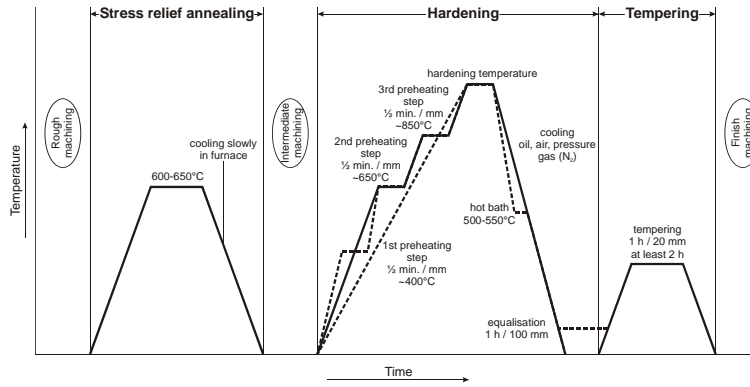
Physical properties:

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
		11,6	12,9	13,2	13,7
Thermal conductivity	$\left[\frac{\text{W}}{\text{m} \cdot \text{K}} \right]$	20°C	350°C	700°C	
		15,8	26,7	28,9	

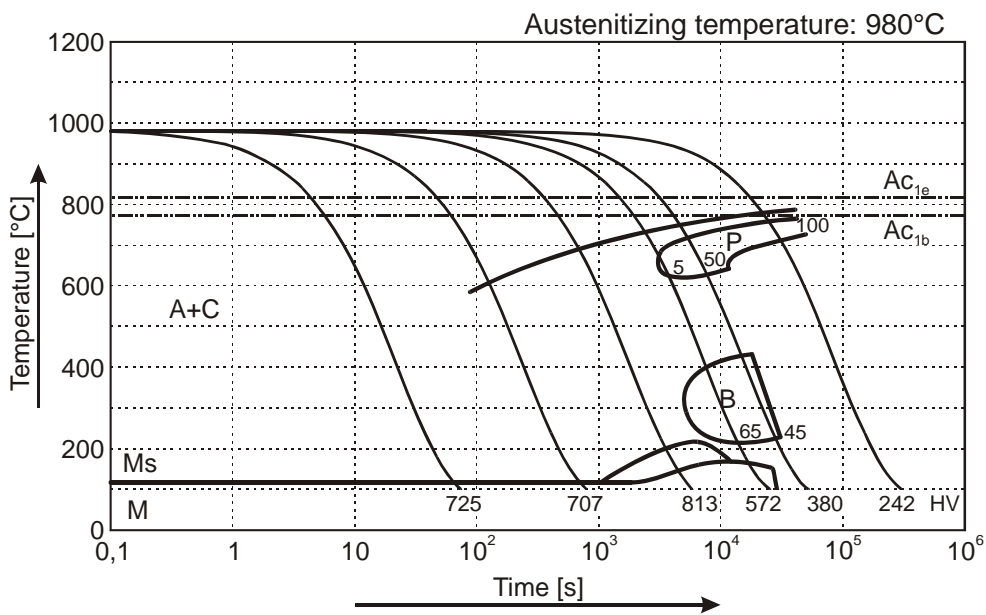
Heat treatment:

Soft annealing	<table border="1"><thead><tr><th>Temperature</th><th>Cooling</th><th>Hardness</th></tr></thead><tbody><tr><td>800 - 840°C</td><td>furnace</td><td>max. 241 HB</td></tr></tbody></table>	Temperature	Cooling	Hardness	800 - 840°C	furnace	max. 241 HB
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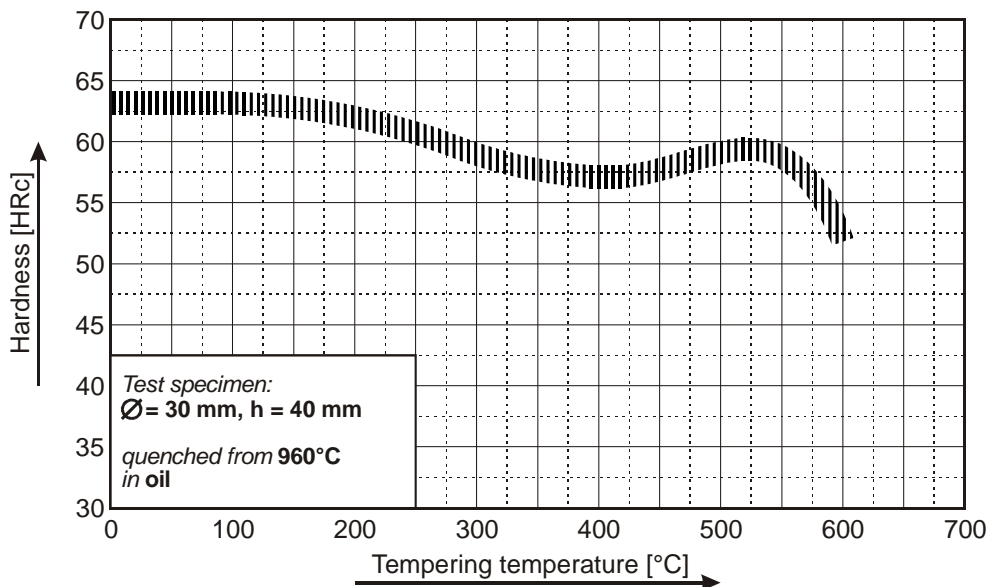
(1.2363) Thermal Cycle Diagram



Continuous Cooling Transformation Diagram (CCT)



Tempering Diagram



Remarks: All technical information is for reference only.