

Material No.: Code:
1.2826 60MnSiCr4

DE - Brand:
MS

Chemical composition:
 (Typical analysis in %)

C	Si	Mn	Cr				
0,60	1,00	1,10	0,30				

Steel properties:

Cold work tool steel, good toughness, high elasticity in tempered condition. Similar to AISI S4.

Applications:

Clamping chucks, face plates, split chucks, trimming dies, ejectors, die plates, cold bending tools.

Condition of delivery:

Soft annealed to max. 220 HB

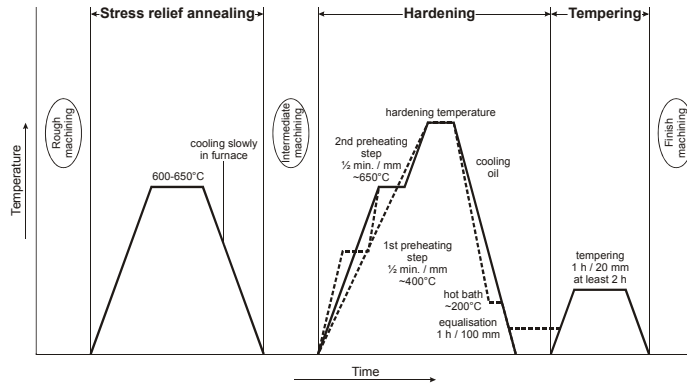
Physical properties:

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
		12,1	12,8	13,3	13,5
Thermal conductivity	$\left[\frac{\text{W}}{\text{m} \cdot \text{K}} \right]$	20°C	350°C		
		34,1	36,0		

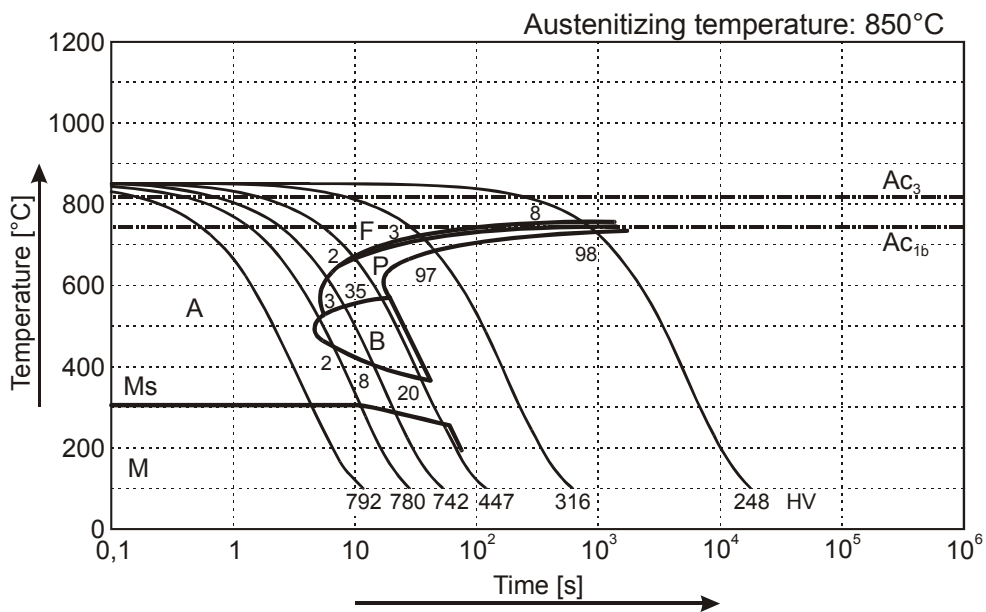
Heat treatment:

Soft annealing	Temperature	Cooling	Hardness
	680 - 720°C	furnace	max. 220 HB
Stress relief annealing	Temperature	Cooling	
	600 - 650°C	furnace	
Hardening	Temperature	Cooling	Tempering
	820 - 860°C	oil or hot bath 180 - 220°C	see tempering diagram

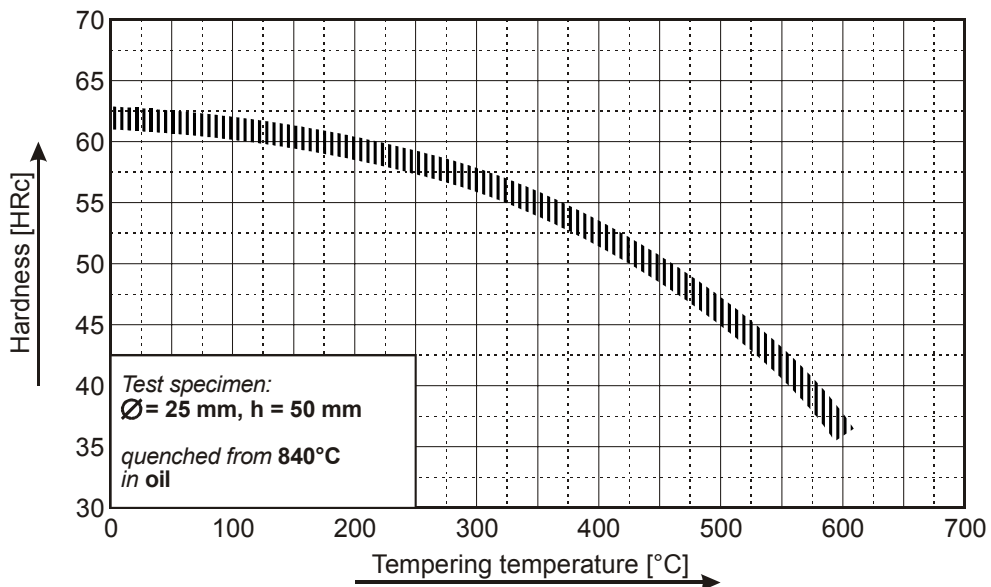
(1.2826) Thermal Cycle Diagram



Continuous Cooling Transformation Diagram (CCT)



Tempering Diagram



Remarks: All technical information is for reference only.