

Material No.: Code:
1.3207 HS10-4-3-10

DE - Brand:
EMo12

Chemical composition:
 (Typical analysis in %)

C	Cr	Mo	V	W	Co		
1,28	4,10	3,50	3,30	9,50	10,00		

Steel properties:

Co-alloyed high-speed steel with high hot strength, good toughness, high secondary hardness maximum.

Applications:

Highly stressed automatic tools, roughing and smoothing tools, highly stressed milling cutters, tools for cold forming.

Condition of delivery:

Soft annealed to max. 302 HB

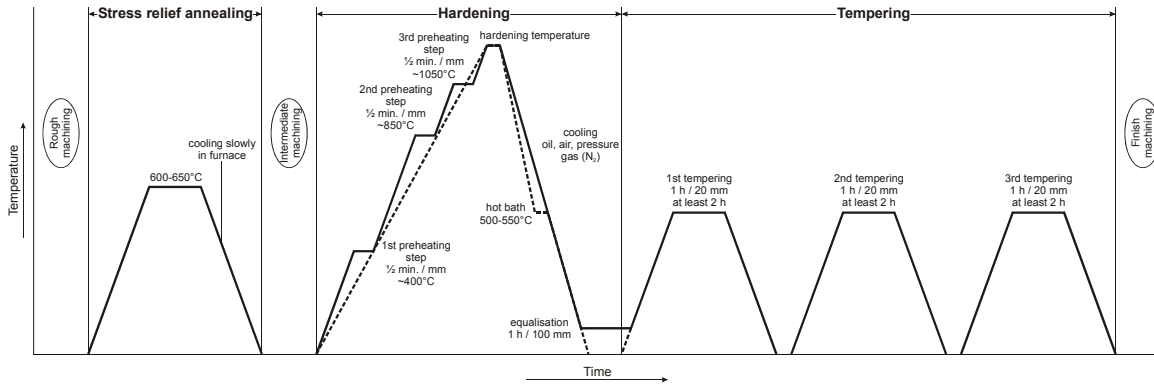
Physical properties:

Thermal expansion coefficient	$\left[\frac{10^{-6} \cdot \text{m}}{\text{m} \cdot \text{K}} \right]$	20-100°C	20-300°C	20-500°C	20-700°C
		8,4	9,9	10,7	11,2
Thermal conductivity	$\left[\frac{\text{W}}{\text{m} \cdot \text{K}} \right]$	20°C	350°C	750°C	
		27,2	26,9	25,8	

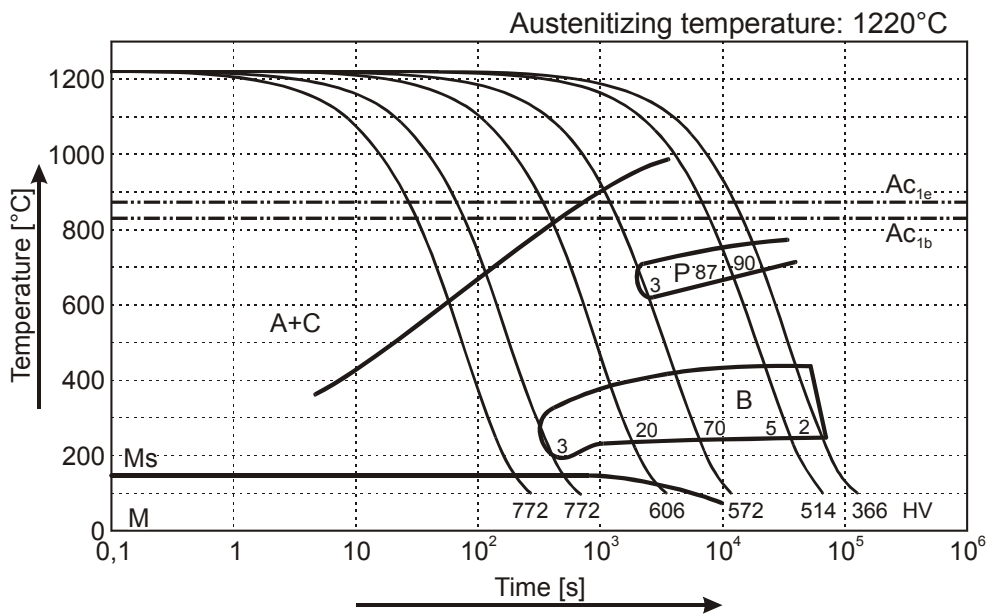
Heat treatment:

Soft annealing	Temperature	Cooling	Hardness
	820 - 860°C	furnace	max. 302 HB
Stress relief annealing	Temperature	Cooling	
	600 - 650°C	furnace	
Hardening	Temperature	Cooling	Tempering
	1190 - 1240°C	oil, pressure gas (N ₂), air or hot bath 500 - 550°C	see tempering diagram

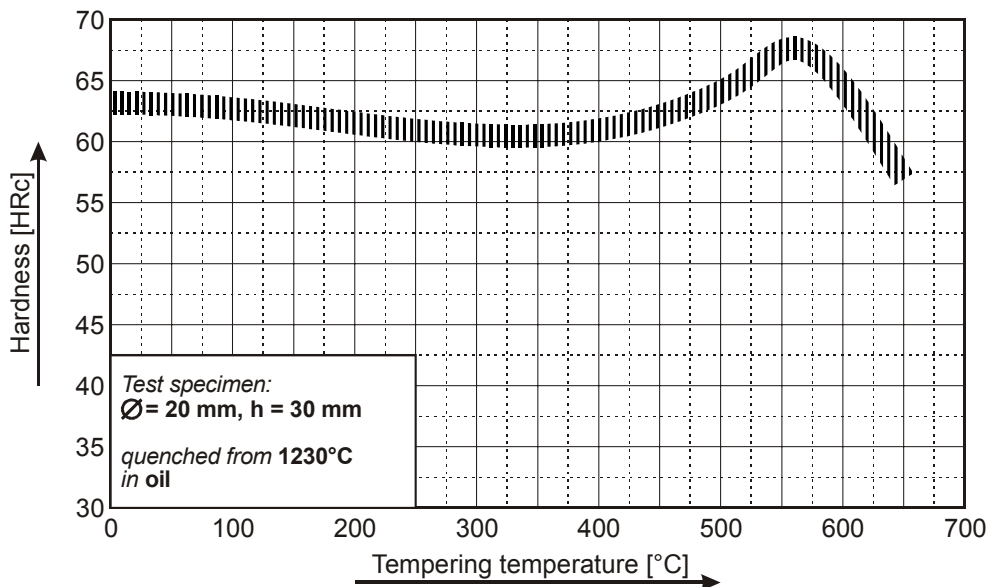
(1.3207) Thermal Cycle Diagram



Continuous Cooling Transformation Diagram (CCT)



Tempering Diagram



Remarks: All technical information is for reference only.