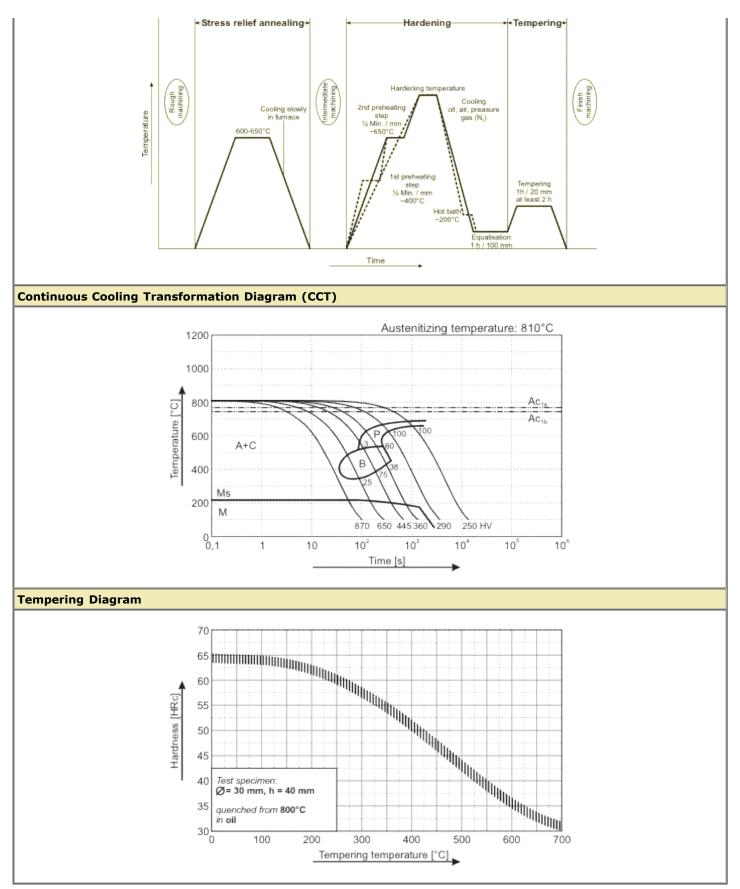


O1 Tool Steel (100MnCrW4)

Medium alloyed cold work steel with good hardening capacity, high wear resistances, dimensionally stable during heat treatment.

Applications: Cutting and punching tools, shear knives, thread rolling tools, measuring instruments.

Colour Code		Stocked Sizes				
Blue/Green		Condition of Delivery		Soft annealed to max. 230 HB		
Related Specificatio	ns	~		7.		
			Germany		DIN 1.2510	
		USA		AISI O1		
Chemical Composition	on			%		
		Carbon		0.95		
		Manganese		1.10		
		Chromium		0.60		
		Tungsten		0.60		
		Vanadium		0.10		
Physical Properties						
	Thermal conductivity			0 1 C 35	200°C 20-300°C 20-400°C 2,6 13,1 13,5	
Heat Treatment			[mK] 33,	4 3	2,1	
Soft Annealing						
	Temperature		Cooling		Hardness	
	740 - 770°C		furnace		max 230 HB	
Stress Relief Anneal	ing					
	Temperature				Cooling	
	600 - 650°C			furnace		
Hardening						
	Temperature	Cooling		Tempering		
	790 - 820°C	oil or hot bath 180 - 220ºC		see tempering diagram		
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