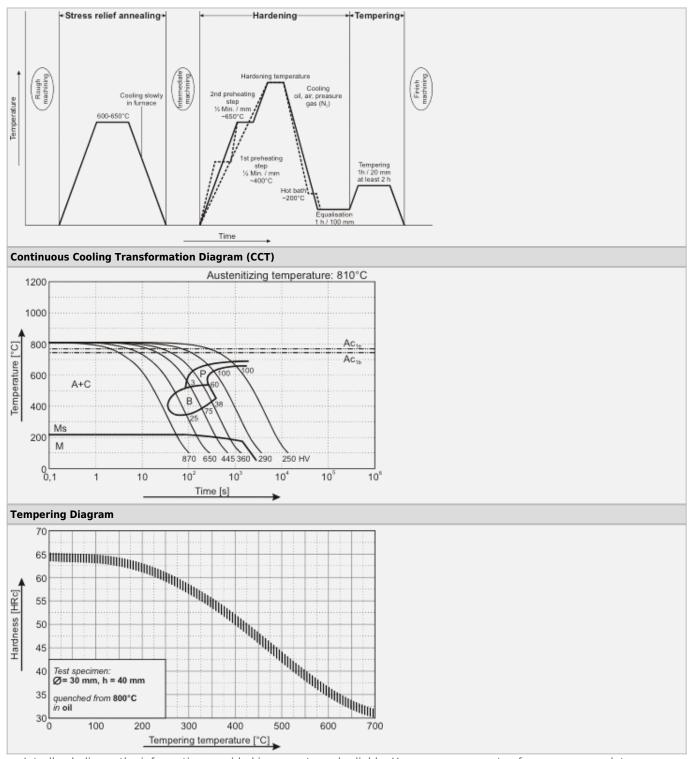


O1 TOOL STEEL (100MNCRW4)

O1 toolsteel is a 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.

Applications. Cutti	ing and puncting tools, silear	Kinves, aneda ronning t	oois, measuring mist	idificitio.	
Colour Code	Stocked Sizes	Stocked Sizes			
Blue/Green	Rounds		20 mm - 222 mm Dia		
	Condition of Deliver	Condition of Delivery			
	Soft annealed to max. 2	Soft annealed to max. 230 HB			
Related Specifi	cations				
Germany		DIN 1.	DIN 1.2510		
USA		AISI O	AISI 01		
Chemical Compo	sition				
		%	%		
Carbon			0.95	0.95	
Manganese			1.10	.10	
Chromium			0.60	0.60	
Tungsten			0.60	0.60	
Vanadium			0.10		
Physical Propertie	es				
Thermal expansion coefficient			[10 ⁴ m		
Thermal conductivity			[V m	V 350°C 33,4 32,1	
Heat Treatment					
Soft Annealing					
Temperature				740 - 770°C	
Cooling				furnace	
Hardness				max 230 HB	
Stress Relief Anne	ealing				
Temperature			600 - 650℃		
Cooling			furnace		
Hardening					
Temperature				790 - 820°C	
Cooling				oil or hot bath 180 - 220°C	
Hardness			see tempering diagram		
Thermal Cycle Dia	igram				



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