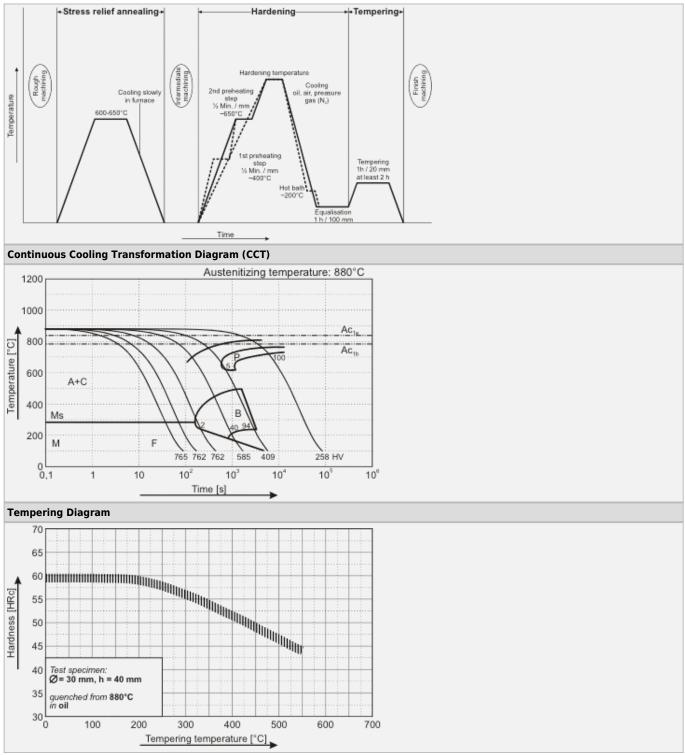


S1 TOOL STEEL (60WCRV7)

S1 toolsteel is a cold work steel with very good toughness, is dimensionally stable, and impact resistant, with high hardening capacity. Applications: Cold shear knives, paper and wood cutting knives, cutting tools for plates up to 10 mm, ejector pins, air hammers.

Colour Code	Stocked Sizes				
Yellow/Blue	Rounds	20 mm - 15	0 mm Dia		
	Condition of Delivery				
	Soft annealed to max. 229	НВ			
Related Specific	cations				
Germany		DIN 1.2550			
USA		AISI S1	AISI S1		
Chemical Compo	sition				
			%		
Carbon			0.60		
Tungsten			2.00	2.00	
Chromium			1.00		
Vanadium			0.15		
Physical Propertie	es				
Thermal expansion coefficient					
Thermal conductivity			[W		
Heat Treatment					
Soft Annealing					
Temperature			740 - 760°C	740 - 760°C	
Cooling		furnace			
Hardness			max 229 HB		
Stress Relief Anne	ealing				
Temperature			600 - 650°C	600 - 650°C	
Cooling			furnace		
Hardening					
Temperature			860 - 900°C		
Cooling		oil or hot bath 180 - 220°C			
Hardness			see tempering diagram	see tempering diagram	



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