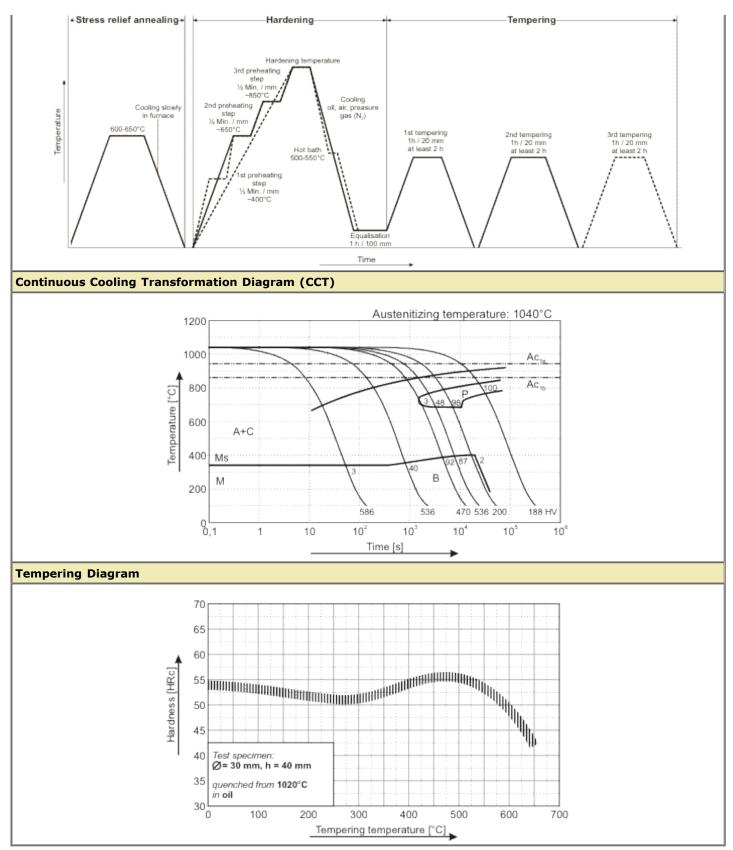


H13 Tool Steel (X40CrMoV5-1)

High strength at elevated temperatures, high hot wear esistance, good toughness, thermal conductivity and resistant to hot cracking, limited water cooling possible.

Applications: Standard material for hot forming tools, extrusion tools, forging dies, pressure casting tools, hot shear knives, tools for plastic industry. Also available in EFS and ESR condition where better properties are required.

Colour Code		Stocked Sizes			
Yellow/Green/Blue		Condition of Delivery S		Soft annealed to max. 229 HB	
Related Specificatio	ns				
		Germany		DIN 1.2344	
		USA		AISI H13	
Chemical Composition	ical Composition			%	
		Carbon		0.40	
		Chromium		5.30	
			ım	1.40	
				1.00	
Physical Properties					
Heat Treatment Soft Annealing	Thermal conductivity		_ m К] 10,8 [<u>W</u>] <u>20°С</u> 25,6	12,3 13,0 13,5 <u>350°C</u> 700°C 28,4 29,4	
	Temperature		Cooling	Hardness	
	750 - 800°C		furnace	max 229 HB	
Stress Relief Anneal	ling				
	Temperature			Cooling	
	600 - 650°C		furnace		
Hardening	-				
	Temperature Cooling			Tempering	
	remperature	oil, pressure gas (N ₂) air or hot bath 500 - 550°C			



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