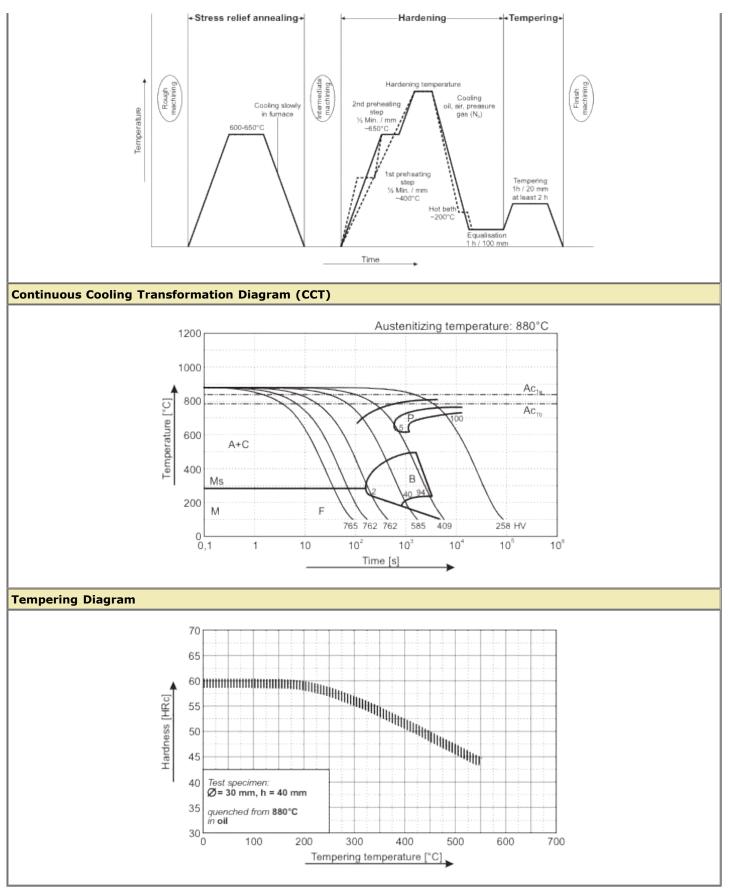


S1 Tool Steel (100MnCrW4)

Cold work steel with very good toughness, dimensionally stable, impact resistant, high hardening capacity.

Applications: Cold shear knives, paper and wood cutting knives, cutting tools for plates up to 10 mm, ejector pins, air hammers.

Therr Heat Treatment Soft Annealing Temp 740	G U U TI C V v rmal expansion coef	Condition of Deli Germany JSA Carbon Tungsten Chromium /anadium	[10 ⁻⁶ m] 20-10	DIN 1.2 AISI S1 % 0.60 2.00 1.00 0.15 2.220	
Chemical Composition Chemical Composition Physical Properties Therr Therr Heat Treatment Soft Annealing Temp 740 Stress Relief Annealing	U C. Tr C V v rmal expansion coef	JSA Carbon Tungsten Chromium /anadium	<u>[10⁴ m] 20-10</u>	AISI S1 % 0.60 2.00 1.00 0.15 0.2020 0.202 0	
Physical Properties Therr Therr Heat Treatment Soft Annealing Temp 740	U C. Tr C V v rmal expansion coef	JSA Carbon Tungsten Chromium /anadium	<u>10⁶ m</u> <u>20-10</u>	AISI S1 % 0.60 2.00 1.00 0.15 0.2020 0.202 0	
Physical Properties Therr Therr Heat Treatment Soft Annealing Temp 740	C TI C V V rmal expansion coef	Carbon Tungsten Chromium /anadium	<u>[10⁶ m] 20-10</u>	% 0.60 2.00 1.00 0.15	
Physical Properties Therr Therr Heat Treatment Soft Annealing Temp 740	Ti C Vi rmal expansion coef	Tungsten Chromium /anadium	<u>[10⁴ m]</u> <u>20-10</u>	0.60 2.00 1.00 0.15)0°C 20-300°C 20-400°C
Therr Therr Therr Therr Therr Soft Annealing Temp 740 Stress Relief Annealing	Ti C Vi rmal expansion coef	Tungsten Chromium /anadium	<u>[10⁶ m] 20-10</u>	2.00 1.00 0.15	00°C 20-300°C 20-400°C
Therr Therr Therr Therr Therr Soft Annealing Temp 740 Stress Relief Annealing	C V rmal expansion coef	Chromium /anadium	<u>[10⁴ m]</u> <u>20-10</u>	1.00 0.15	00°C 20-300°C 20-400°C
Therr Therr Therr Therr Therr Soft Annealing Temp 740 Stress Relief Annealing	rmal expansion coef	/anadium	[<u>10⁶ m</u>] <u>20-10</u>	0.15	00°C 20-300°C 20-400°C
Therr Therr Therr Therr Therr Soft Annealing Temp 740 Stress Relief Annealing	rmal expansion coef		<u>10⁻⁶ m</u> 20-10	00°C 20-20	00°C 20-300°C 20-400°C
Therr Therr Therr Therr Therr Soft Annealing Temp 740 Stress Relief Annealing		fficient	<u>[10⁻⁶ m]</u> 20-10		00°C 20-300°C 20-400°C
Therr Heat Treatment Soft Annealing Temp 740 Stress Relief Annealing		fficient	10 ⁻⁶ m 20-10		00°C 20-300°C 20-400°C
Soft Annealing Temp 740 Stress Relief Annealing	L			,9 11 ° <u>C 350</u> ,9 29	
740 Stress Relief Annealing					
740 Stress Relief Annealing	nperature		Cooling		Hardness
	740 - 760°C		furnace		max 229 HB
Tem				*	
	Temperature			C	Cooling
600 -	600 - 650°C			furnace	
Hardening					
Tem		Temperature Cooling		Temper	ing
860 -	1perature		hat hath	see tempering diagram	
Thermal Cycle Diagram	nperature) - 900°C	oil or l 180 -	· 220°C		pering diagram



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