

DIN - Material - No. 1.2363
Code X100CrMoV5-1
Comparable standards AISI: A2

Chemical composition	C	Si	Mn	Cr	Mo	V
(Typical analysis %)	1.00	0.25	0.60	5.15	1.05	0.20

Steel properties High dimensional stability during heat treatment. High wear resistance and toughness.

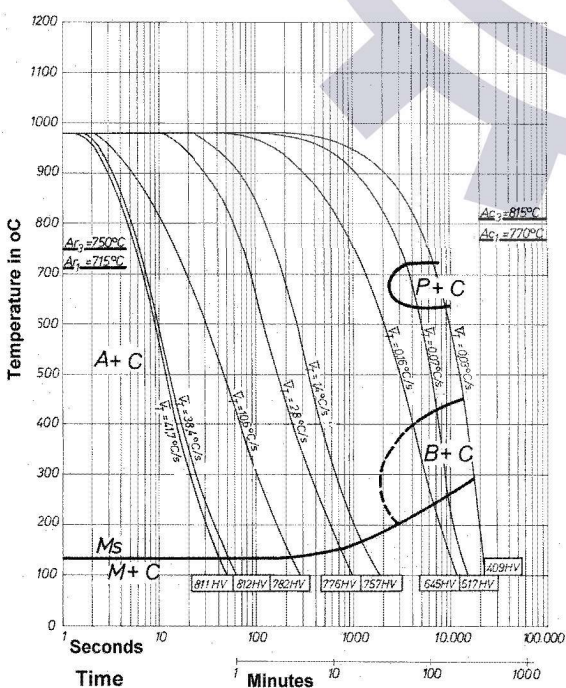
Physical properties	Thermal conductivity W/(m.K)	20°C
		26
	Density g/cm ³	20°C
		7.70
	Coefficient of linear thermal expansion	
	10 ⁻⁶ °C ⁻¹	20-100 20-200 20-300 20-400 20-500 20-600 20-700°C
		11.7 12.9 13.3 13.8 14.2 14.6 14.9

Applications Cutting, stamping, injection tools, rolls, slitters, plastic moulds.

Stress Relieving Holding at approx 650°C for one hour.

Heat treatment	Soft annealing°C		Cooling				Hardness HB			
	800 - 840		furnace				max. 230			
	Hardening from°C		in				Hardness after quenching HRC			
	930 - 970		oil, air; thermal bath 500 - 550°C				63			
	Tempering	°C	100	200	300	400	500	600	700	
	HRC	63	62	58	57	57	51	36		

Time - Temperature - Transformation - Diagram



Tempering Diagram

