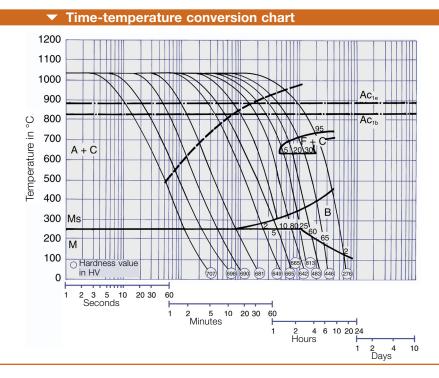
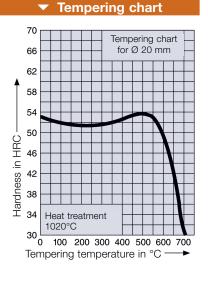
## **Mould steel**





Material no.: Abbreviated DIN name: Chemical analysis (%):	1.2343 X37CrMoV5-1 C Si Mn Cr V Mo 0,37 1,00 0,37 5,15 0,40 1,30	HASCO colour code Hardness when supplied:	red annealed to approx. 229HB (~ 770 N/mm²)
Characteristics		Physical properties	
Material properties: High-alloy hot-work steel with high resistance to changing temperatures and good heat resistance. High thermal conductivity and toughness. Uses: Cavity plates and inserts for the plastics and die-casting industry (e.g. where nitriding is to be carried out with high core strength).		Thermal expansion coefficient (10 <sup>-6</sup> ·m)/(m·K)	
		10020030040010,811,411,812,0	
		Thermal conductivity W / (m⋅K)	20 350 700 °C 25,3 27,2 30,5
Remarks			
Polishing:	Highly suitable for polishing due to homogenous structure. For high-gloss polishes, use 1.2343 in ESR quality.		
Graining:	Well suited, for fine structures use 1.2343 in ESR quality.		
Nitriding:	Increases wear resistance and prevents sticking of insert and component.		
Hardening:	At 1000°C – 1030°C Details can be taken from the time-temperature conversion and tempering charts. The most suitable heat treatment for the relevant work piece should be fixed by the hardening shop. The hardness should be specified by the hardening shop and checked on delivery.		
Soft annealing:	800°C – 840°C, approx. 4 h		
Stress-relief annealing: Normal working hardness:	To eliminate residual stress after coarse machining at approx. 600°C – 650°C, approx. 4 h with slow heating and furnace cooling. 30 - 53 HRC		





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