

General Information: Pre-hardened grade specially designed for the plastic mold industry deliver in hardened and tempered condition (300HB), subsequent heat treatment is not necessary. Specially employed for the plastic mold industry and adapted ford polishing and chemical etching (low sulphur content).							
Comparable standards	AISI/SAE	DIN	W.N	AFNOR	BS	SIAU	
	/	40CrMnMo7	1.2311	(35CMD7)	/	2311	
Chemical analysis (%)	C	Mn	Si	Cr	Mo	P	S
	0.35-0.45	1.30-1.60	0.20-0.40	1.80-2.10	0.15-0.25	≤0.03	≤0.03

Heat Treatment	
Annealing:	Heat to 720÷750°C for 2÷4 h furnace cool.
Stress relieving:	Up to 560÷600°C, hold for 2÷4h; furnace or still air cooling.
Hardening:	Preheating to 600÷650°C; - Heat to hardening temperature to 840÷870°C and hold at temperature. - Cooling in oil Hardness after hardening: HRC 51
Tempering:	To be carried out after hardening in the range 580÷650°C for 25mm of thickness minimum 2h.

Tempering Curve (only for reference):

