

1.2358 / X60CrMoV18-5 Cold Work Tool Steel

Standards	DIN	AISI	JIS	ГОСТ
X60CrMoV18-5	1.2358			

Chemical composition (typical analysis in %)

C	Si	Mn	P	S	Cr	Mo	V
0.58-0.62	0.20-0.50	0.70-0.90	≤0.030	≤0.030	4.30-4.70	0.40-0.60	0.20-0.30

Steel properties :

Chrome-molybdenum-vanadium steel is characterized by high toughness and good resistance to the wear. Further the steel has good hardenability and good dimensional stability after hardening and tempering. The steel can also be well welded and well polished. The toughness of quality 1.2358 reaches higher values than by other steels for cold work (1.2842, 1.2363, 1.2080, 1.2379, 1.2436). An excellent combination of toughness and resistance to the wear enables the usage of quality 1.2358 also for different pressing and injection applications during plastics processing.

Applications :

For cold work and for molds for plastics. In case of using for cold work we can talk mainly about these applications: cutting and mechanical working (also materials of bigger thicknesses), deep drawing, punching, rolling, production of shear blades, more complicated tools for cold work. In the area of molds for plastics the steel can be used e.g. for molds for large series, molds for plastics with additives, tools for plastics stamping etc.

Size range :

Diameter (mm)	Thickness (mm)	Width (mm)
6 - 500	6 - 400	Max 810

Delivery condition : Soft annealed to max. 240 HB

Heat Treatment:

Soft annealing

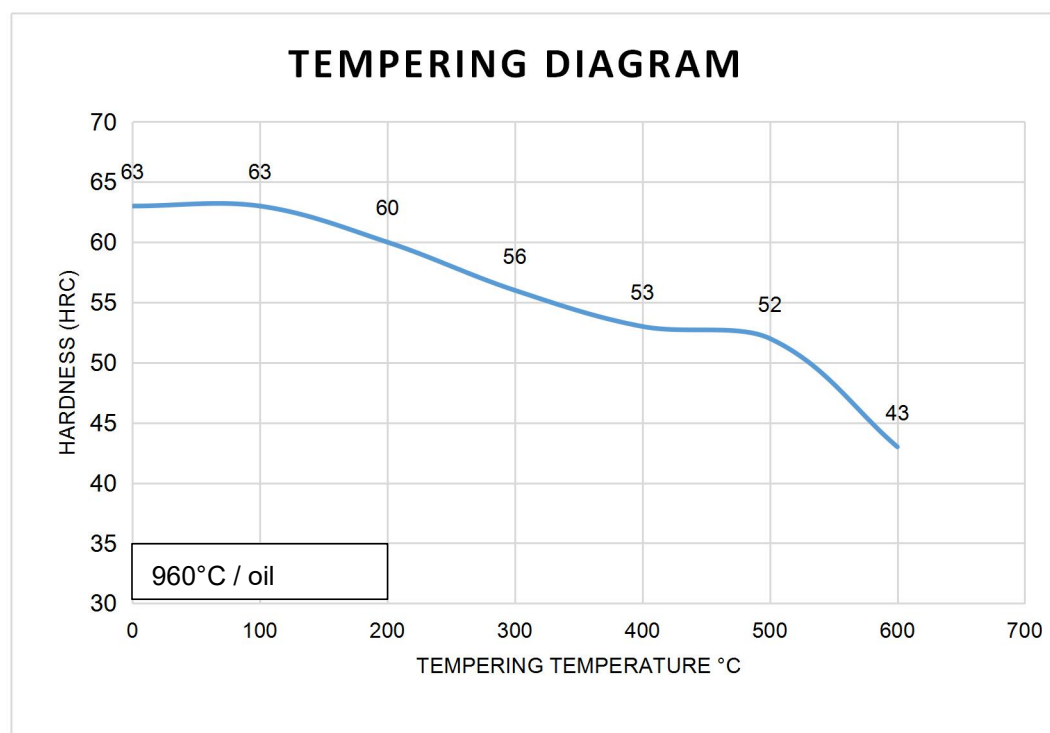
Temperature(°C)	Cooling	Hardness
820 - 860	furnace	max. 240 HB

Forging

Temperature(°C)	Cooling	
850 - 1050	furnace	

Hardening

Temperature(°C)	Cooling	Tempering
950 - 970	oil or air or hot bath	see tempering diagram usually 180°C



Remarks: All technical information is for reference only.

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