

1.2085 / 420FM Plastic Mould Steel

Standards	DIN	AISI	JIS	ГОСТ
X33CrS16	1.2085	420FM		

Chemical composition (typical analysis in %)

C	Si	Mn	P	S	Cr	Ni
0.28-0.38	≤1.00	≤1.40	≤0.030	≤0.030	15.0-17.0	≤1.00

Steel properties :

Resistant to the corrosion, Martensite steel with the high content of chrome. The steel has good resistance to the wear, good workability and polishability.

Applications :

Molds for pressing of chemically-aggressive plastic substances, corrosion-proof clamping frames of molds etc.

Size range :

Diameter (mm)	Thickness (mm)	Width (mm)
50 - 500	20 - 400	Max 810

Delivery condition :

Soft annealed to max. 230 HB

Heat Treatment:

Soft annealing

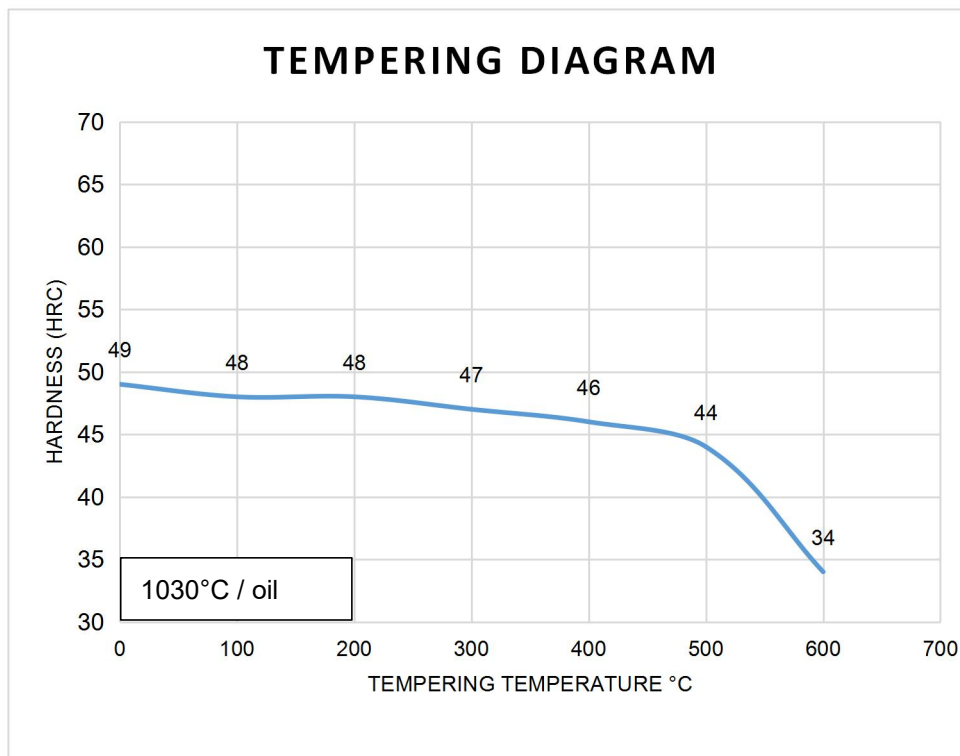
Temperature(°C)	Cooling	Hardness
850 - 880	furnace	max. 230 HB

Forging

Temperature(°C)	Cooling	
800 - 1100	furnace	

Hardening

Temperature(°C)	Cooling	Tempering
1000 - 1050	oil or hot bath	see tempering diagram



Remarks: All technical information is for reference only.

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