

**1.2083 / 420SS Plastic Mould Steel**

Standards	DIN	AISI	JIS	ГОСТ
X42Cr13 / X40Cr14	1.2083	420SS	SUS420J2	40X13

**Chemical composition** (typical analysis in %)

C	Si	Mn	P	S	Cr
0.36-0.45	≤1.00	≤1.00	≤0.030	≤0.030	12.5-14.5

**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, liners & Wear plates. Suitable for precise dies with super mirror performance and abrasion resistance, camera components, optical lens.

**Size range :**

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

**Delivery condition :**

Soft annealed to max. 225 HB

## Heat Treatment:

Soft annealing

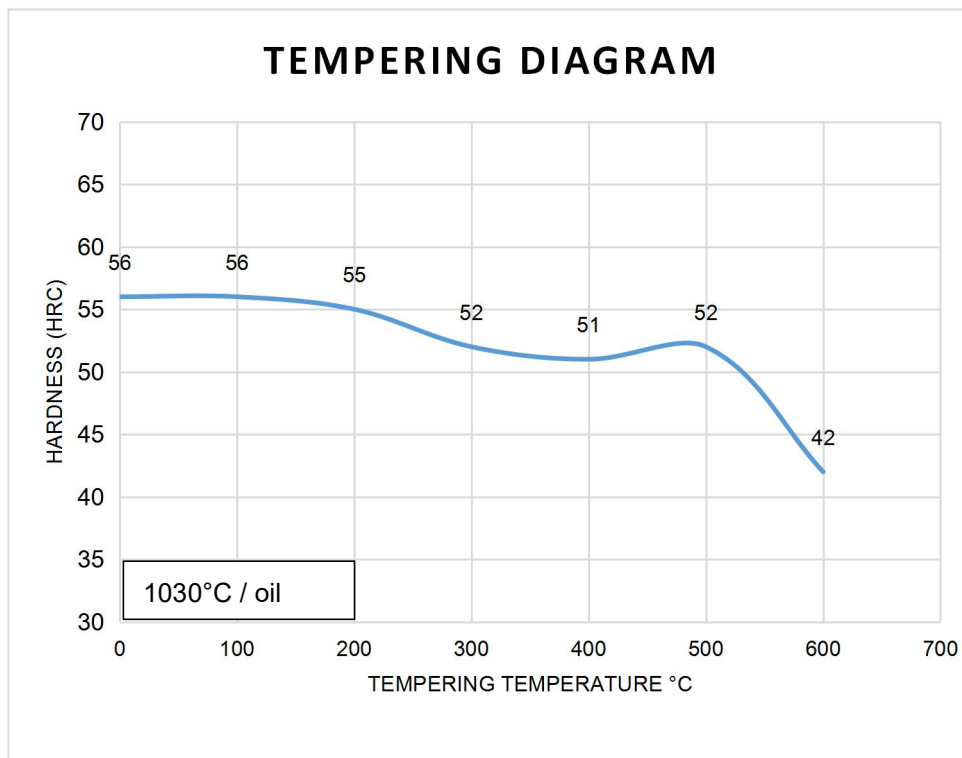
Temperature(°C)	Cooling	Hardness
750 - 800	furnace	max. 225 HB

Forging

Temperature(°C)	Cooling	
800 - 1100	furnace	

Hardening

Temperature(°C)	Cooling	Tempering
1020 - 1050	oil or hot bath	see tempering diagram



Remarks: All technical information is for reference only.

## ALTA SPECIAL STEEL

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