

1.2510 / O1 Cold Work Tool Steel

Standards	DIN	AISI	JIS	ГОСТ
X100MnCrW4	1.2510	O1	SKS3	9XBГ

Chemical composition (typical analysis in %)

C	Si	Mn	P	S	Cr	W	V
0.90-1.05	0.15-0.35	1.00-1.20	≤0.030	≤0.030	0.50-0.70	0.50-0.70	0.05-0.15

Steel properties :

This grade is an oil hardening tool steel supplied in the annealed condition. It offers good durability, gives excellent wear resistance and holds a good cutting edge. With these properties this tool steel 1.2510 is an excellent general purpose grade often used where the expense of a high carbon high chromium tool steel would not be justified.

Applications :

Wear-resistant non-deformable cold mold, such as sheet stamping dies, embossing dies for jewelry. Aall kinds of metal stamping die and forming tools, such as notches cutting die, die sleeve. Cutting tools, woodworking cutting tools. Wear small plastic molding and plastic molded parts. Making of aluminum, zinc and copper alloy extrusion dies, casting dies and hot shearing blades, etc. Small silver Polish steel (scaled and cold drawn), which is an ideal material for ejection pins and sleeves.

Size range :

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

Delivery condition : Soft annealed to max. 230 HB

Heat Treatment:

Soft annealing

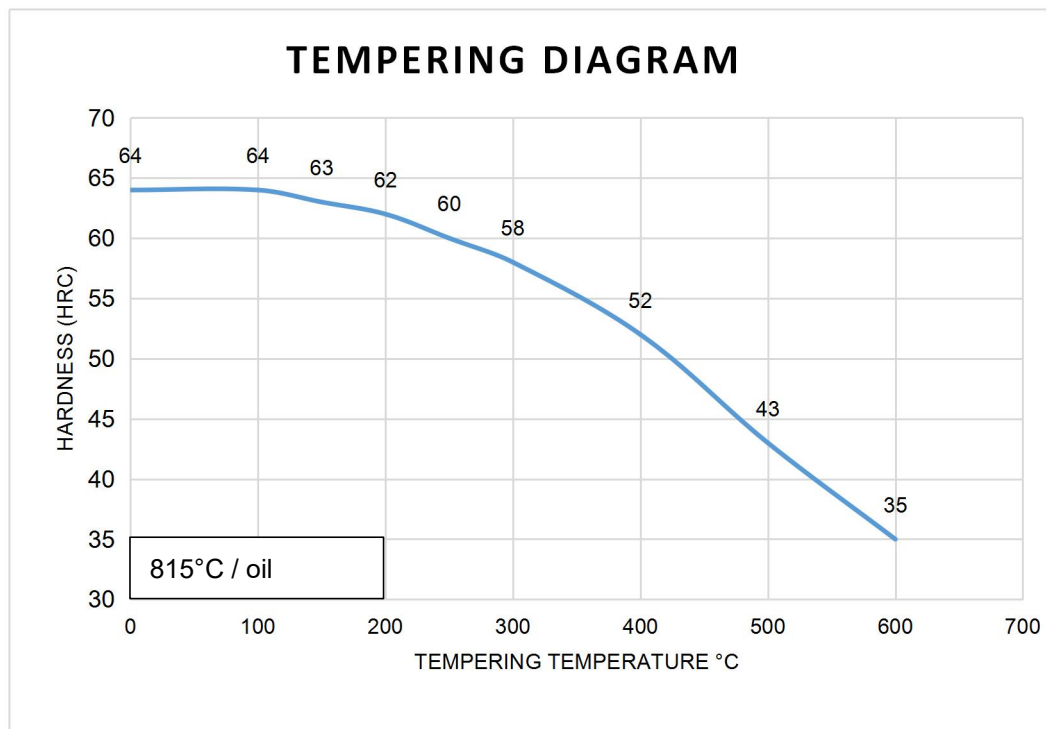
Temperature(°C)	Cooling	Hardness
750 - 780	furnace	max. 230 HB

Forging

Temperature(°C)	Cooling	
850 - 1050	furnace	

Hardening

Temperature(°C)	Cooling	Tempering
810 - 840	oil	see tempering diagram usually 150 - 250°C



Remarks: All technical information is for reference only.

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