

1.2550 / S1 Cold Work Tool Steel

Standards	DIN	AISI	JIS	ГОСТ
X60WCrV7	1.2550	S1	SKS41	6XB2C

Chemical composition (typical analysis in %)

C	Si	Mn	P	S	Cr	W	V
0.55-0.65	0.50-0.70	0.15-0.45	≤0.030	≤0.030	0.90-1.20	1.80-2.10	0.10-0.20

Steel properties :

A shock resisting steel it is suited for both hot and cold work applications. The tungsten content of this steel grade confers fatigue resistance, the chromium content provides depth of hardness and resistance to abrasion. It is suitable for cold work tools subject to heavy shock. 1.2550 is also used with great success for chisels and punches required for heavy work on hard and tough materials. Suitable for hot work applications where high fatigue strength with medium hot hardness is desirable. Tools made from this grade can be water cooled in service with minimal risk of cracking.

Applications :

Tools for cold cutting, shear blades, industrial knives, scrapping scissors, circular scissors. Hot extrusion dies, forging die forging hammer, forging press die, precision forging die well as aluminum, copper and alloys die-casting mold. Making blanking punching dies for thin sheet, cold piercing tools, trimming tools, profile shear blades slitting cutters, woodworking tools, small engraving tools; ejectors and similar tools etc.

Size range :

Diameter (mm)	Thickness (mm)	Width (mm)
6 - 450	6 - 350	Max 810

Delivery condition : Soft annealed to max. 230 HB

Heat Treatment:

Soft annealing

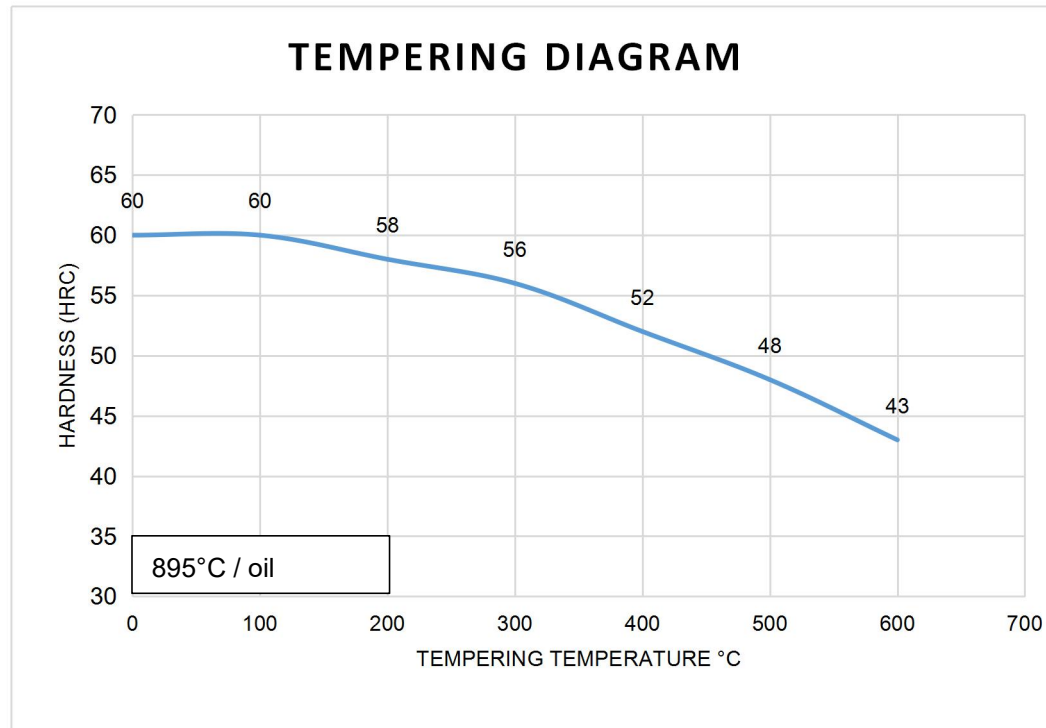
Temperature(°C)	Cooling	Hardness
720 - 750	furnace	max. 230 HB

Forging

Temperature(°C)	Cooling	
850 - 1050	furnace	

Hardening

Temperature(°C)	Cooling	Tempering
860 - 900	oil or air or hot bath	see tempering diagram usually 180 - 400°C



Remarks: All technical information is for reference only.

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