

1.2363 / A2 Cold Work Tool Steel

Standards	DIN	AISI	JIS	ГОСТ
X100CrMoV5	1.2363	A2	SKD12	9Ch5VF

Chemical composition (typical analysis in %)

C	Si	Mn	P	S	Cr	Mo	V
0.90-1.05	0.10-0.40	0.40-0.80	≤0.030	≤0.030	4.80-5.50	0.90-1.20	0.15-0.35

Steel properties :

An air hardening tool steel which, after heat treatment, offers a high abrasion resistance coupled with toughness. Due to its lower chromium content, the wear resistant properties of 1.2363 are not as great as those to be found in high carbon, high chromium steels such as 1.2080 and 1.2379 but it is much easier to machine than the latter qualities and can be ground to give a cutting edge which is less liable to crumble in service. Where tools of large mass are being produced this tool steel, being an air hardening quality, is more suitable than the oil or water hardening tool steels.

Applications :

Cutting, blanking die, punch, rolling cylindrical dies, slitting knife, cold heading die, clay mold, thermosetting plastic molding etc.

Size range :

Diameter (mm)	Thickness (mm)	Width (mm)
8 - 450	6 - 350	Max 810

Delivery condition : Soft annealed to max. 235 HB

Heat Treatment:

Soft annealing

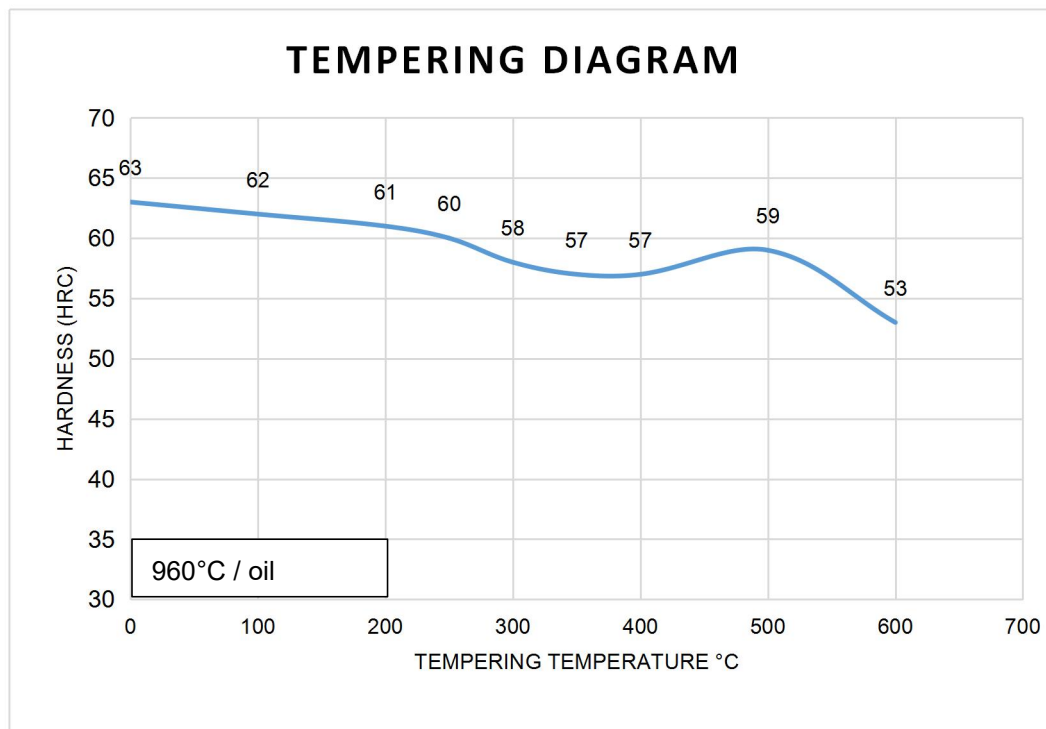
Temperature(°C)	Cooling	Hardness
610 - 650	furnace	max. 235 HB

Forging

Temperature(°C)	Cooling	
850 - 1050	furnace	

Hardening

Temperature(°C)	Cooling	Tempering
960 - 1020	oil or air or hot bath	see tempering diagram usually 160 - 550°C



Remarks: All technical information is for reference only.

ALTA SPECIAL STEEL

No.86 road, huangshi, China · www.altaspecialsteel.com

Tel : 86 714 3064045 · Fax : 86 714 3046045