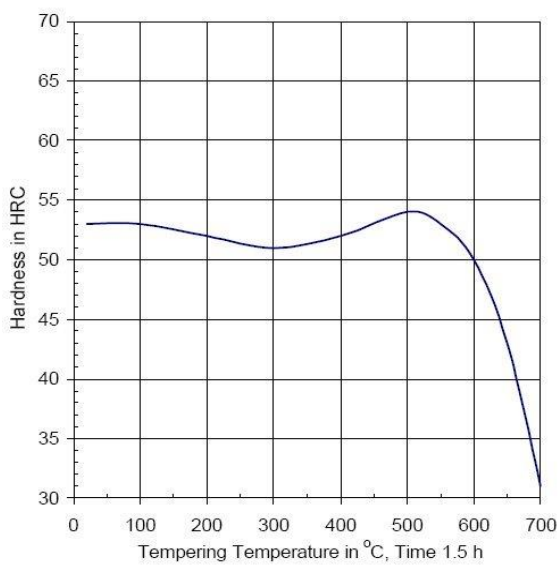


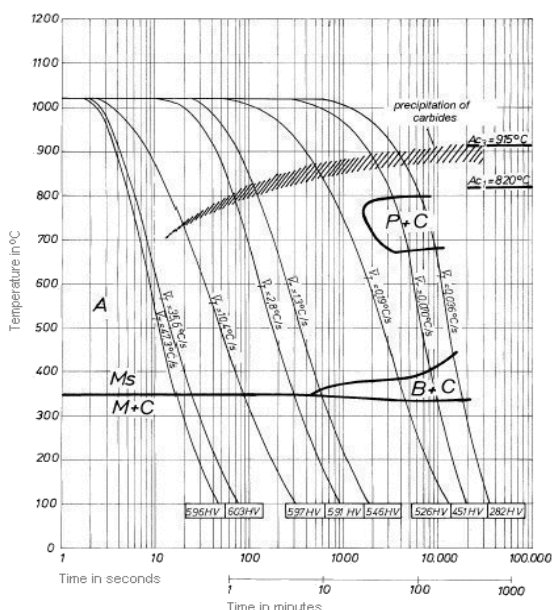
SKD61

Trade Name	Technical Delivery Condition	Annealed Hardness	Typical Chemical Composition					
			C	Si	Mn	Cr	Mo	V
SKD61	Annealed	205 HB	0.37 – 0.43	0.90 - 1.20	0.30 - 0.50	4.80 - 5.50	1.20 - 1.50	0.90 – 1.10

Werkstoff	DIN standard	AISI	BS	JIS	SIS	UNI
1.2344	X40CrMoV5-1	H13	B-H13	SKD61	2242	X40CrMoV5-1-1KU



Graph 1



TTT Graph

Type of steel and characteristics:

Hot work tool steel with high level of resistance to thermal shock and fatigue, excellent hot tensile strength properties, high hot wear resistance, good machinability and polishability, fine grain size with high level toughness, dimensional stability, extra fine structure without grain boundary carbide, nitridable suitable for water cooling.

Applications:

Primarily for the processing of light metal alloys. Highly stressed hot work tools, such as mandrels, dies and containers for metal tube and rod extrusion. Hot extrusion tools, tools for the manufacture of hollows, tools for the manufacture of screws, nuts, rivets and bolts. Die casting tools, forming dies, die inserts, hot shear blades.

Heat Treatment:

Hot Forging	1100 - 900°C
Annealing	750 - 800°C
Stress relieving	600 - 650°C
Hardening	1020 - 1080°C
Hardness obtainable	52 – 56 HRC in oil 50 – 54 HRC in air
Tempering	Refer Graph 1
Nitriding	540 °C