



HSSD A4

IMPACT-RESISTANT COLD WORK DIE STEEL

Introduction

As modified AISI A4 cold work die steel, HSSD A4 has small and uniform ledeburite carbides, high toughness and impact resistance. It is not easy to crack when used in molds with complex shapes. The steel can replace the new generation of imported cold work die steel with high toughness and high wear resistance, such as AISI A2, 1.2363, DC53, SKD12, etc.

Chemical Properties

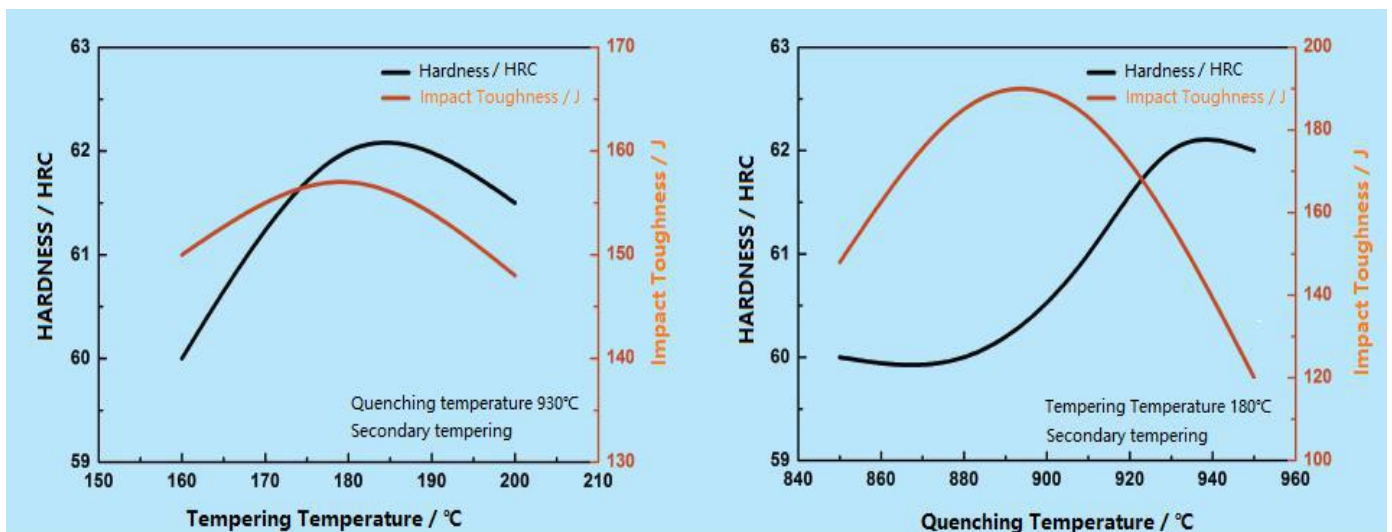
Steel Grade	C	Si	Mn	Cr	Mo	V	Ni
HSSD A4	0.65~0.90	0.70~1.00	0.70~1.10	2.20~3.50	0.20~0.50	0.15~0.35	0.30~0.60

Application

Cold stamping dies (home appliance punching die, gasket punching die, all kinds of connecting rod reed die, etc.), cold extruding dies (clutch, gear, flange plate and guide tube etc.), cold heading dies (cavity and punch pin, etc.), cold shear blade for plate.

Features

- Heat treatment hardness is equivalent as that of D2 steel, and the toughness is more than 3 times of that of D2, while the wear-resistance is slightly lower than that of D2 steel.
- Long service life under high stress impact
- Cutting processing performance is better than that of D2 steel
- Deformation of heat treatment
- Performance curve of quenching and tempering





Recommend Heat Treatment

QUENCHING				TEMPERING		
Heating Temperature/°C		Cooling Way	Hardness (HRC)	Tempering Temperature /°C	Tempering Numbers	Hardness (HRC)
Preheating	Last Heating					
500~600	850~950	Oil Cooling	60~65	160~200	2	60~63