



HS DC53

HIGH-TOUGHNESS HIGH-WEAR-RESISTANCE COLD WORKING DIE STEEL

Introduction

As high-toughness high-wear-resistance cold working die steel, HS DC53 can be applied to stamping dies and cold forging dies.

Chemical Properties

Steel Grade	C	Si	Mn	P	S	Cr	Ni*	Cu*	Mo	V
HS DC53	0.90-1.20	0.30-0.65	0.20-0.50	≤0.03	≤0.03	7.50-9.00	≤0.25	≤0.30	1.20-1.60	0.30-0.60

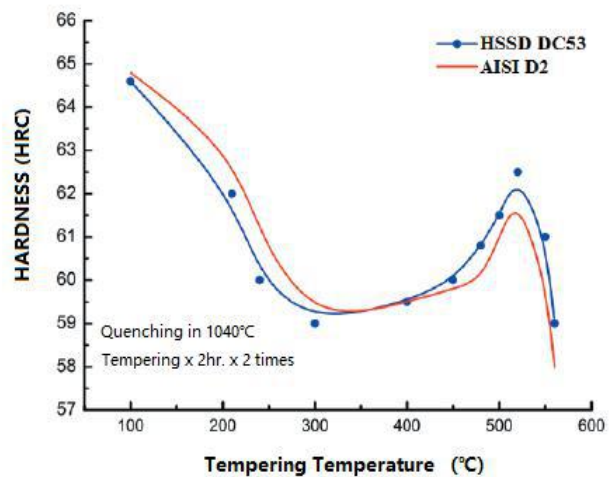
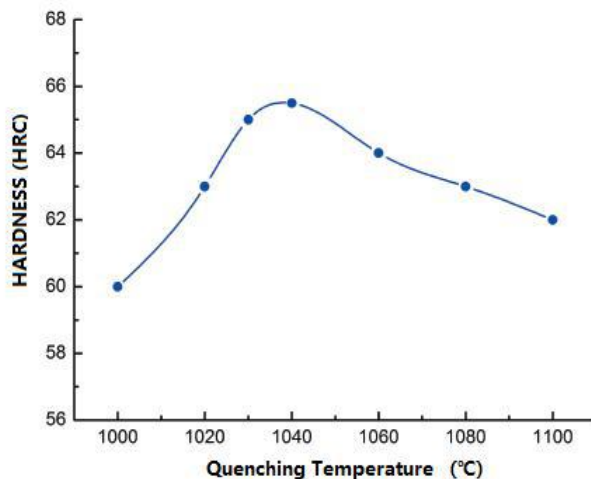
* residual content allowed

Application

- Precision stamping dies, cold forging, deep drawing and thread rolling dies, auto parts bending dies, bicycle parts dies, hydraulic forming dies, high-speed blanking punches, stainless steel plate punches, etc.

Features

- It has high toughness, high wear resistance and good high-temperature anti-tempering stability, and has small risk of chipping or cracking during use.





Recommend Heat Treatment

QUENCHING					TEMPERING			
Prog-ram	Heating Temperature/°C			Cooling Way	Hardness (HRC)	Tempering Temperature /°C	Tempering Numbers	Hardness (HRC)
	First Preheating	Second Preheating	Last Heating					
I	500~600	820~860	1010~1060	Oil Cooling	60~65	170~230	2	61~63
II	500~600	820~860	1060~1100	Oil Cooling	60~65	510~540	2	60~62