HS H13-MOD

HIGH HOT-STRENGTH HOT WORKING DIE STEEL

Introduction

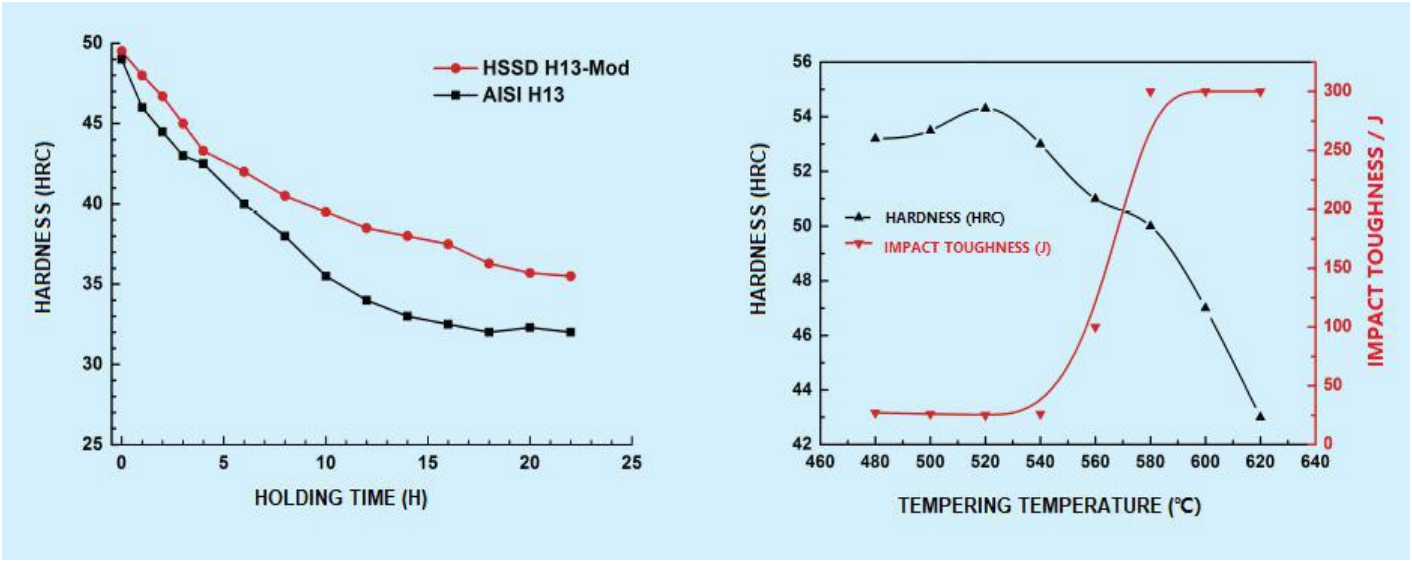
As modified Improved high-thermal-strength hot-work die steel, HS H13-Mod optimizes the ratio of C and Cr alloy elements on the basis of traditional H13, reduces the content of harmful elements such as P and S, so that it has good thermal stability and thermal fatigue resistance.

Chemical properties

Steel Grade	C	Si	Mn	P	S	Cr	Mo	V
HS H13-Mod	0.30~0.40	1.20~1.60	0.30~0.50	≤0.015	≤0.003	3.50~4.50	0.80~1.20	0.80~1.00

Features

- High resistance of tempering softening properties (the using temperature can improve 50℃ comparing with H13 steel).
- Excellent Thermal Stability: under long time preservation of 620℃, the hardness is always higher than that of H13, and still maintain above 35HRC.
- High thermal fatigue resistance: better than that of H13 steel.
- Performance curve of tempering and CCT curve (continuous cooling transformation).



Recommend Heat Treatment

Heating Temperature/℃			Cooling Way	Hardness (HRC)	Tempering Temperature/℃	Tempering Numbers	Hardness (HRC)
First Preheating	Second Preheating	Last Heating					
500~600	820~860	1010~1060	Oil Cooling	53~55	560~600	2~3	47~50