

W2Mo9Cr4VCo8 High Speed Steel

Introduction:

W2Mo9Cr4VCo8 steel code is M42, It is the American grade of super-hard cobalt high speed tool steel. M42 high speed steel's vanadium content is not high (1%), but the cobalt content is very high (8%). Cobalt can cause carbide during quenching heating more dissolved in the matrix, using the high matrix hardness increase abrasion resistance. M42 steel hardness, red hardness, wear-resisting column and grinding is very good. Heat treatment can reach 67 ~ 67 HRC hardness, but also can adopt special heat treatment, hardness 67 ~ 68 HRC. Can improve the cutting performance and improve the impact toughness.

STEEL GRADE/TYPE				
GB	JIS	AISI	DIN	Other Comp.
W2Mo9Cr4V2Co8	SKH59	M42	S6-5-2-5 1.3247	Bohler S500 ERASTEEL EM42 HITACHI YXM42

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Chemical composition %										
C	W	Mo	Cr	V	Co	Ni	Mn	Si	P≤	S≤
1.05- 1.15	1.15- 1.85	9.00- 10.00	3.50- 4.25	0.95- 1.35	7.75- 8.75	—	0.15- 0.40	0.15- 0.65	0.030	0.020

Application:

Suitable for manufacturing various strong cutting tools with wear-resistant, resistant to impact. Advanced punching die, screw die, the toughness and complicated shape of the punch, etc. Roll cutting tool industry: scraper, serrated knife, iron knives, drill bits, etc.

Forging industry: forging die.

Screw industry: heading forming mould, such as teeth, punch.

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