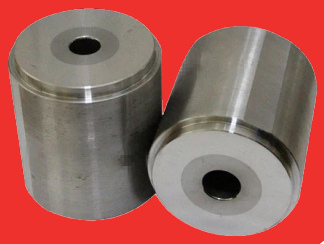


QCM8

Cold Work Tool Steel

TECHNICAL SHEET

1 Comparision Standards

W.Nr	DIN	JIS equivalent	AISI/SAE	AFNOR	BS	UNI
Patented						

2 Chemical Composition

C	Si	Mn	P (max)	S (max)	Ni	Cr	Mo	W	V
Patented									

Supply Condition	Supply Hardness (HB)
Annealed	240

3 Main Characteristics and Applications

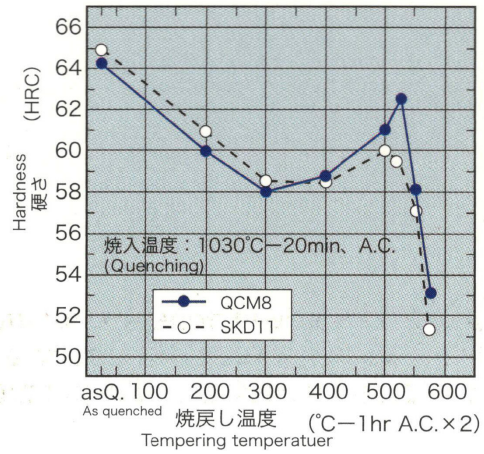
QCM8 is a premium cold work die steel that offers an exceptional balance of high hardness and toughness. Compared to traditional cold work die steels like SKD11, QCM8 demonstrates superior performance in terms of hardness, toughness, fatigue strength and wear resistance. Its microstructure is carefully controlled to achieve these exceptional properties, resulting in significantly extended die life.

Applications:

- Blanking and Fine Blanking
- Forming and Powder pressing
- Thread rolling and Coining
- Drawing and deep drawing
- Cold forging and Cold extrusion
- Shearing

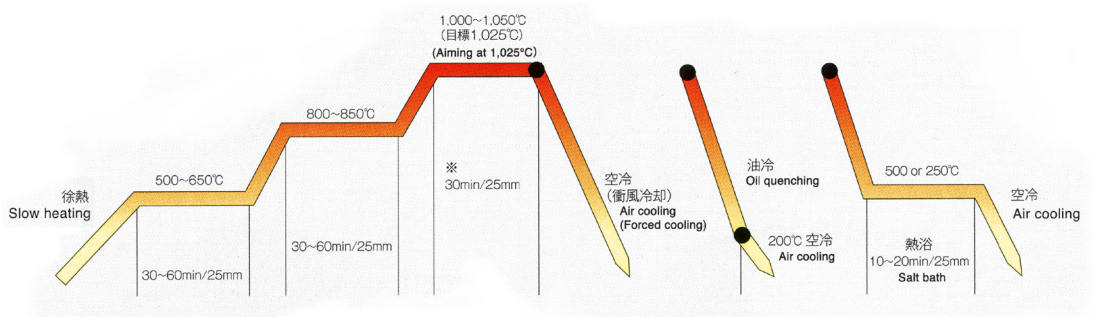
4 Production Route

EAF - LF - VD - Forging / Rolling + Annealing
- Machining if Required



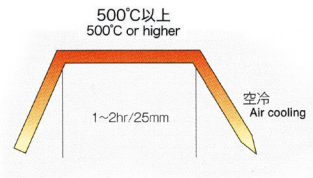
6 Heat Treatment

Quenching



※：加熱保持時間（Holding time）
雰囲気炉（Atmosphere-controlled furnace）……30min/25mm
ソルトバス（Salt bath）……30min/25mm（浸漬時間 Immersion）
真空炉（Vacuum furnace）……40—60min/mm

Tempering



■耐摩耗性重視 Supreme wear resistance
500~530℃ (60~63HRC)

■靭性重視 Supreme toughness
540~560℃ (55~60HRC)

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