



直營進口商:

帥鋒特殊鋼股份有限公司

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## 1.2367 VICTORY ESR

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電渣重熔 Electro-slag-remelting (ESR)							
主要特性							
<ul style="list-style-type: none"> <li>— 具有極好的耐熱性和好的高溫韌性</li> <li>— 高的耐熱疲勞性和耐磨性</li> <li>— 適合於高要求應用</li> <li>— 尺寸變化小</li> <li>— 可進行氮化處理</li> <li>— 良好的拋光性</li> <li>— 與傳統煉鋼相比具有更好的等向性</li> </ul>							
主要應用							
<ul style="list-style-type: none"> <li>— 輕合金壓力鑄造模具</li> <li>— 模鍛模仁和嵌件</li> <li>— 擠壓模具</li> <li>— 重合金模具模架及內導套</li> <li>— 重輕合金壓力成形模具</li> </ul>							
化學成分%							
C	Si	Mn	Cr	Mo	V		
~0.36	~0.35	~0.35	~5.10	~2.80	~0.55		
物理性質							
熱膨脹係數 [10 <sup>-6</sup> m/(m x K)]	20-100 °C	20-200 °C	20-300 °C	20-400 °C	20-500 °C	20-600 °C	20-700 °C
	11.9	12.5	12.6	12.8	13.1	13.3	13.5
熱傳導性 [W/(m x K)]	20 °C		350 °C		700 °C		
	29.6		34.0		35.4		



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### 熱處理

鍛造	軟性退火	淬硬	回火
1050 – 850°C	820 - 840°C	1030 - 1060°C	500 - 700°C

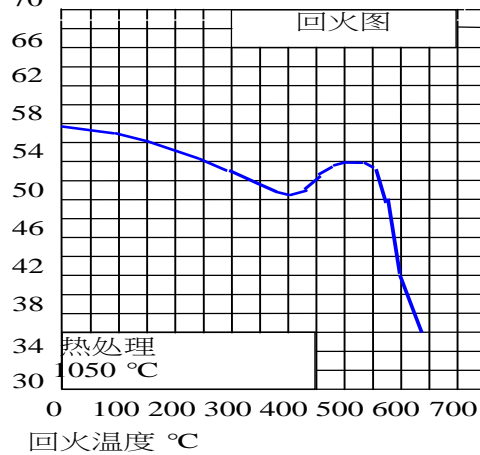
### 回火圖

HRC

試樣直徑為25x50mm長

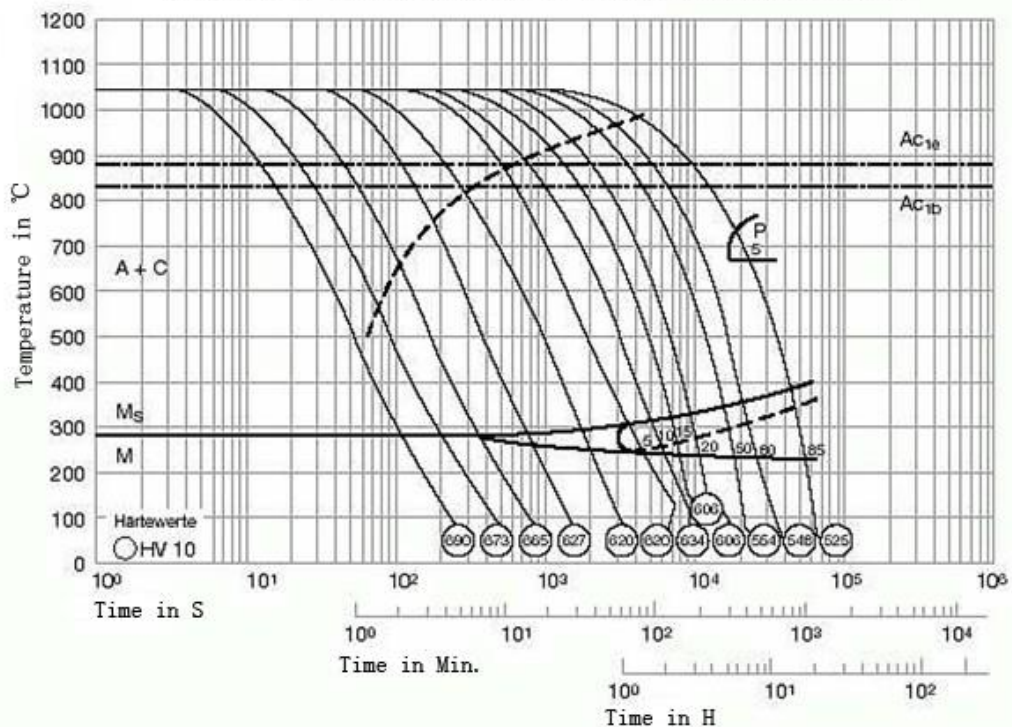
油淬溫度為1050°C

硬度 HRC



### CCT圖

Continuous Time-Temperature-Transformation Diagram





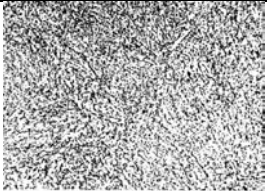
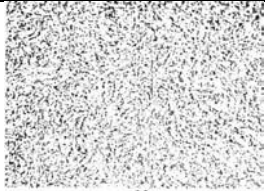
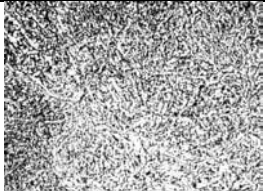
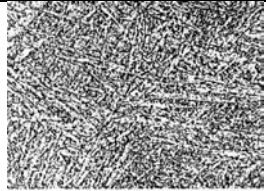
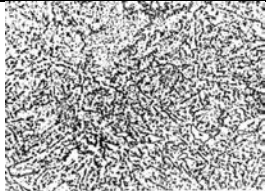
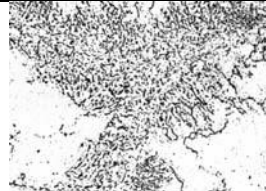
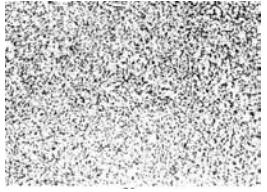
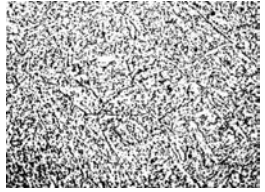
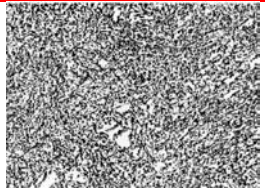
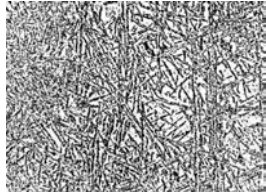
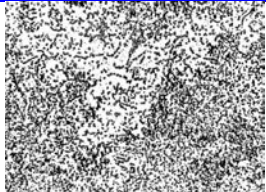
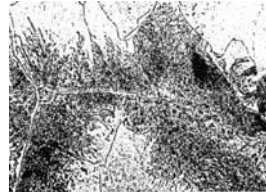

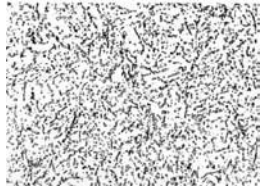




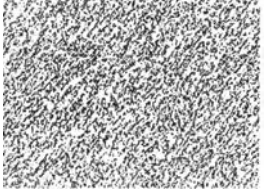





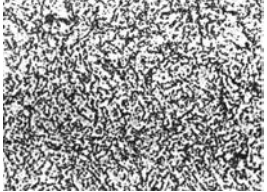
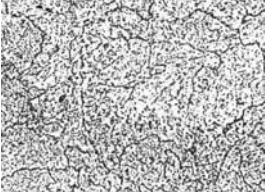
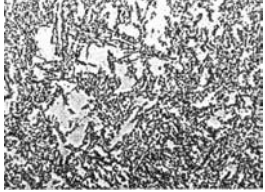



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出廠狀態
軟化退火，良好的微觀結構，硬度最大至229 HB 或者 按照客戶要求預硬
運用狀態
35- 55 HRC
衝擊強度
無缺口試樣 10x7x55 [mm] 熱處理至44-46HRC VDG M82 Ed.02/1993 250J 或者 按客戶要求
超聲檢驗
ASTM A388 - FBH max. 3 mm (1/8 inch) 或者 SEP 1921 – test group 3 – class E , e 或者 按客戶要求
純淨度
按照ASTM E45方法A，A硫化物 $\leq 0.5$ ，B氧化物，C矽酸鹽和D球狀氧化物各 $\leq 1$ 或者 DIN 50602– K1 $\leq 10$ 或者 按客戶要求
鋼材結構
細均勻退火結構 參考下一頁
尺寸規格
圓鋼直徑至600 mm 模組厚度至400 mm 或者 按客戶要求

	GA	GB	GC	GD	GE	GF
1	 GA1	 GB1	 GC1	 GD1	 GE1	 GF1
2	 GA2	 GB2	 GC2	 GD2	 GE2	 GF2
3	 GA3	 GB3	 GC3	 GD3	 GE3	 GF3
4	 GA4	 GB4	 GC4	 GD4	 GE4	 GF4
5	 GA5	 GB5	 GC5	 GD5	 GE5	 GF5
	EFS退火/ EFS annealed		ESU至400 mm / ESR up to 400 mm		ESU至250 mm / ESR up to 250 mm	