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8402

类型: (Type)

- i. 通用热作工具钢。
- ii. 通用塑料模具钢
- i. Hot work tools steel.
- ii. Plastic mold for general use.

化学成分 (Chemical Compositions):

	C碳	Si硅	Mn锰	Ni镍	Cr铬	W钨	Mo钼	S硫	Co钴
%	0.39	1.00	0.4	—	5.30	—	1.3	0.9	—

交货状态 (Delivered Condition) :

软性退火约HB185

Soft Annealed Approximately HB185

特性 (Features):

- 高、低温均有良好的耐磨性
- 优良的韧性和延展性
- 稳定且优良的加工性和抛光性
- 优良的高温强度和抗热疲劳性
- 优良的淬透性
- 很小的热处理尺寸变形
- Good resistance to abrasion at both low and high temperatures.
- High level of toughness and ductility.
- Uniform and high level of machinability and polishability.
- Good high-temperature strength and resistance to thermal fatigue.
- Excellent through-hardening properties.
- Very limited distortion during hardening.

用途 (Applications) :

可用于制作挤压类模具 (如模仁、模托、模座、衬垫、衬套、顶杆等)、塑料模 (如大批量生产的热塑性塑胶注塑模、表面要求高的热固性塑胶模)、剪切刀具、耐磨损零件等。

Can be used to create extrusion (Such as dies backers, die-holders, liners, dummy blocks, stems, etc), plastics (Such as Mass production of thermoplastic plastic injection mold, thermosetting plastic for good surface requirements), Shearing tools, wear parts, etc.

物理特性 (Physical data) :

温度(Temperature) °C	20	400	600
密度(Density) kg/m ³	7800	7700	7600
热膨胀系数(Coefficient fo thermal expansion per) 1/°C × 10 ⁻⁶	—	12.6	13.2
热传导系数(Thermal conductivity) W/m•C	25	29	30
弹性模量(Modulus of elasticity) N/mm ²	210000	180000	140000



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热处理 (Heat treatment):

1. 淬火: 预热至600~850℃, 加热至1020~1050℃, 淬火介质: 空冷。

Quenching: Pre-heating 600~850℃, Heating to 1020~1050℃, Hardening medium: Air.

2. 回火: 加热至180~250℃, 在此温度停留2~6小时。

Tempering: Heating to 180~250℃, Holding time 2~6h.

3. 硬度: ≥HRC51.

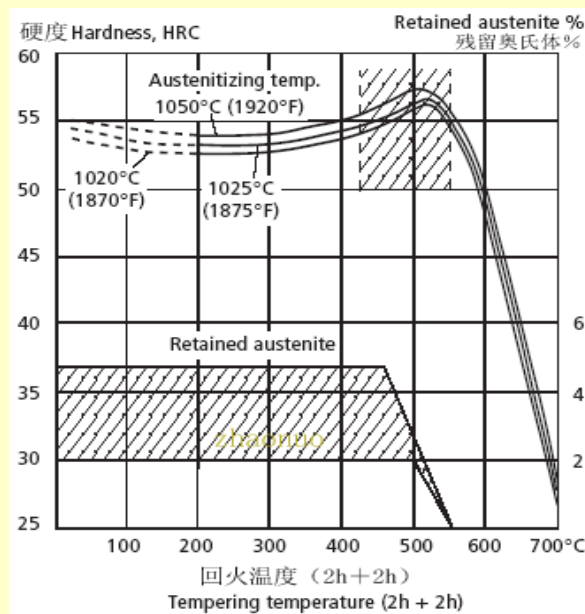
Hardness: ≥HRC51.

4. 退火: 加热至750~850℃, 在此温度停留1~3小时, 在炉中冷却。

Annealing: Heating to 750~780℃, Holding time 1~3h, Cooling in furnace.

图例 (Pictures):

回火曲线图 (Tempering temperature--Hardness):



应用实例图 (Application plans):



注意: 本文档部分资料来自厂家, 若有疑问, 请与我司联系。

Notise: Some of the information in this file from the manufacturers, if in doubt, please contact our company.