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8407

类型: (Type)

- i. 通用热作工具钢。
- ii. 抛光镜面塑料模具钢
- i. Hot work tools steel.
- ii. Plastic mold for mirror polishing.

化学成分 (Chemical Compositions):

	C碳	Si硅	Mn锰	Ni镍	Cr铬	W钨	Mo钼	V钒	Co钴
%	0.39	1.00	0.4	—	5.20	—	1.4	0.9	—

交货状态 (Delivered Condition):

软性退火约HB180

Soft Annealed Approximately HB180

特性 (Features):

- 优良的耐热冲击和抗龟裂能力。
- 高温强度高。
- 不论大小尺寸, 韧性及延展性高高且各向同性。
- 加工性及抛光性优良。
- 优良的淬透性。
- 良好的热处理尺寸稳定性。
- High level of resistance to thermal shock and thermal fatigue.
- Good high-temperature strength.
- Excellent toughness and ductility in all directions.
- Good machinability and polishability.
- Excellent through-hardening properties.
- Good dimensional stability during hardening.

用途 (Applications):

可用于制作压铸类模具 (如压铸模、嵌入件、型芯、模仁、浇口、喷嘴、顶针(氮化)、柱塞、套筒等)、挤压类模具 (如模仁、模托、衬垫、衬套、顶杆、承块等)、热锻模具、注塑模、剪切刀具、耐磨损零件等。

Can be used to create Casting Dies (Such as dies, fixed inserts, cores, sprue parts, nozzles, ejector pins—nitrided, plunger, shot-sleeve, etc), extrusion (Such as dies backers, die-holders, liners, dummy blocks, stems, etc), hot pressing, plastics, 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	13.9
热传导系数(Thermal conductivity) W/m•C	24.6	26.2	27.6
弹性模量(Modulus of elasticity) N/mm ²	202500	175000	130000



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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: Heating to 1020~1050℃, Hardening medium: Air.

2. 回火: 加热至250~300℃, 在此温度停留2~6小时。

Tempering: Heating to 250~300℃, Holding time 2~6h.

3. 硬度: ≥HRC53.

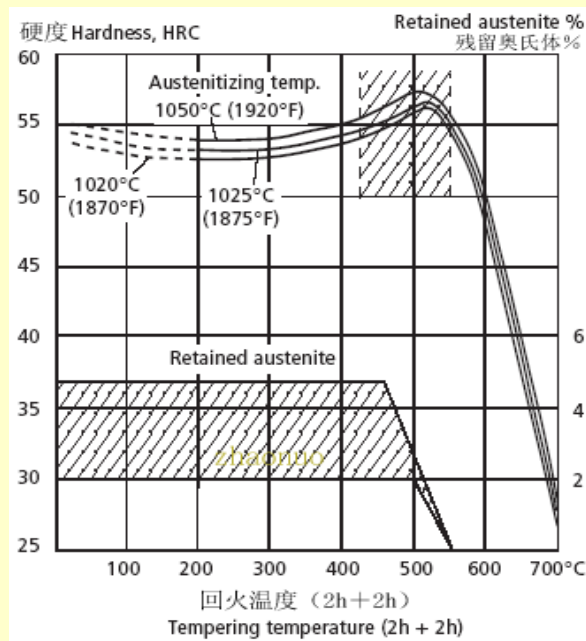
Hardness: ≥HRC53.

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

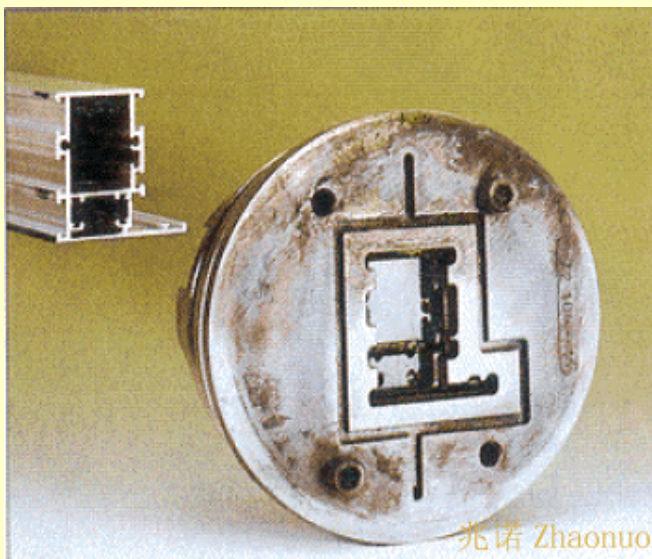
Annealing: Heating to 750~850℃, Holding time 1~3h, Colding in furnace.

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。

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