FS418 1.2344 H13

◆ 主要特性

- 良好的纯净度
- 较好的韧性及等向性
- 较好的抗热疲劳性（热龟裂）
- 良好的热强度
- 较好的机加工性能

Main Characteristics

High cleanness
Good toughness and isotropy
Good thermal fatigue resistance (heat checking resistance)
Good hot strength
Good machinability

◆ 主要应用

较高寿命要求的金属压铸、挤压模具；复杂、长寿命要求的塑胶模具

Main Applications

Metal die casting and extrusion dies with relatively long service life requirements; plastic molds with complex geometry and long service life requirements

◆ 化学成分 Chemical Composition %

C	Si	Cr	Mo	V	P	S
0.36	1.00	5.20	1.40	1.00	0.010	0.002

◆ 冶炼方法 Melting Method

电弧炉+LF+VD+保护气氛电渣或满足用户需要。EAF+LF+VD+Inert-gas protective ESR or according to customer requirement.

◆ 超声波检验 Melting Method

SEP1921 厚度≤250mm E/e级；厚度>250-400mm E/d级或满足用户需要。
SEP1921, class E/e for the thickness up to 250mm; Class E/d for the thickness from 250mm to 400mm, or according to customer requirement.

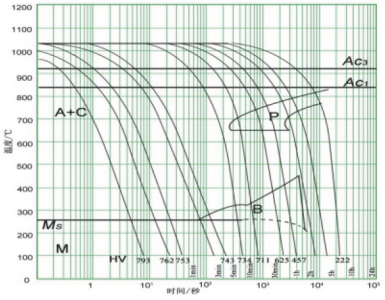
◆ 显微组织 Microstructure

NADCA#207-2022 显微组织达到合格级别。Conforming to the requirement of NADCA#207-2022.

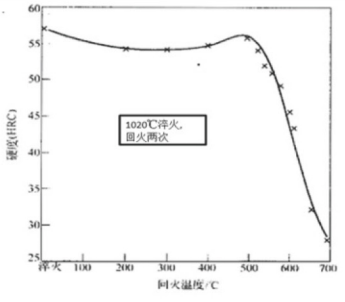
◆ 机械性能 Mechanical Property

屈服强度 Yield Strength MPa	抗拉强度 Tensile Strength MPa	伸长率 Elongation %	断面收缩率 Reduction of Area %	冲击吸收能量(V型缺口) Impact Absorption Energy J (V-Notch)	600℃抗拉强度 600℃Tensile Strength MPa
≥1400	≥1520	≥10	≥40	≥13.6	≥900

◆ CCT曲线 CCT Curve



◆ 淬火-回火硬度曲线 Tempering-Hardness Diagram



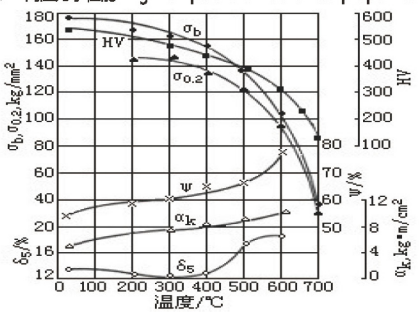
◆ 产品规格 Product Dimension

扁钢：最大厚度400mm；最大宽度1200mm或满足用户需要。
Flats: maximum thickness 400mm, maximun width 1200mm or according to customer requirement.

◆ 交货状态 Delivery Condition

退火态：硬度HBW≤235；
或满足用户需要。
Hardness in annealed condition HBW≤235
Or according to customer requirement.

◆ 高温力学性能 High temperature mechanical properties



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