

FS136HN

耐磨型耐蚀塑料模具钢 Wear-resistant and corrosion-resistant plastic mould steel

◆ 产品特性 Product characteristics

一种高抛光、高耐磨塑料模具钢。具有较高耐腐蚀性，可抵抗弱有机酸、硝酸盐、碳酸盐和其他盐类稀溶液的腐蚀。具有较高的韧性和可加工性能。

Plastic mould steel with high polishability and wear resistance. The material is rather corrosion resistant, resisting to the corrosion of weak organic acids, nitrates, carbonates, and other salt dilute solutions. It has high toughness and machinability.

◆ 主要应用 Main application

适宜制造适用于通常含有玻纤增强填充剂和腐蚀性添加剂（如阻燃剂）的高性能塑料成型、塑化螺杆、PVC等腐蚀性塑料；适用于对表面光洁度要求高的镜头和透明塑料模具。

Suitable for the manufacture of plastic molding moulds for plasticizing screw, PVC and other corrosive plastics that usually contain glass fiber reinforced fillers and corrosive additives (such as flame retardants); Suitable for lenses and transparent plastic moulds requiring high surface finish.

◆ 抛光等级 Polishability : 8000#-10000#

◆ 化学成分 Chemical composition (wt%)

元素	C	Si	Mn	Cr	Mo	V	特殊添加 Special addition
含量	0.30	0.40	0.40	14.00	2.0	0.50	-

◆ 冶炼方法 Melting method

保护气氛或加压电渣重熔，或满足用户需要的其它冶炼方法。

Protective atmosphere or pressure electroslag remelting, or other melting methods that can meet customer requirements.

◆ 生产规格 Dimensions

轧制扁钢 Rolled flat steel: 10~90mm × 60~305mm

锻制扁钢 Forged flat steel: 100~600mm × 300~1200mm

圆钢 Round steel: Φ10~Φ400mm

◆ 纯净度 Purity

A (细) Fine	A (粗) Thick	B (细) Fine	B (粗) Thick	C (细) Fine	C (粗) Thick	D (细) Fine	D (粗) Thick
0.5	0.5	1.0	1.0	0.5	0.5	1.0	1.0

◆ 物理参数 Physical parameters

温度 Temperature /°C	20~100	20~200	20~300	20~400	20~500
线膨胀系数 Coefficient of linear expansion /°C ⁻¹ × 10 ⁻⁶	10.5	11.3	11.8	12.5	13.3
热导率 Thermal conductivity λ /W · (m · K) ⁻¹	20.4	21.9	23.5	27.0	28.7

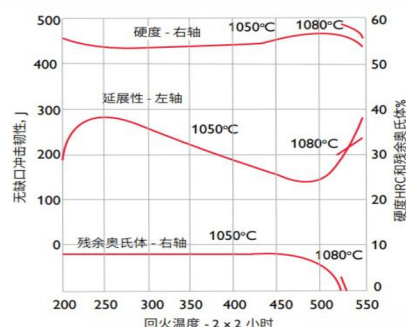
◆ 室温力学性能 Room temperature mechanical properties

试样测试硬度/HRC Specimen hardness	无缺口冲击/J Smooth specimen Impact	U 口冲击/J U-notch impact	抗拉强度 Rm/MPa Tensile strength	屈服强度 Rp0.2/MPa Yield strength
50~54	≥200	≥18	≥1800	≥1350

◆ 交货状态：退火状态交货，硬度≤235HBW，或满足用户需求。

Delivery condition: Annealed condition, hardness ≤ 235HBW, or according to customer requirements.

◆ 力学性能 Mechanical property



◆ 回火性能 Tempering performance

