



CN P20 MOD

国产塑胶模具钢

Plastic Mould Steel (China Made)

预硬材料 Prehardened Steel

高强度模架 Mould Base with High Strength Requirement

CN P20 MOD 简介 Introduction

CN P20 MOD是参照美国AISI P20标准并在成份上作出调整，所开发之国产预加硬塑胶模具钢。

CN P20 MOD is a pre-hardened plastic mould steel developed by LKM through her sourcing channels in China with reference to the US standard AISI P20 with adjustments in chemical composition.

CN P20 MOD主要用于塑胶模具下模件、高强度要求之模架。

CN P20 MOD is mainly used for core/movable part of plastic injection mould and mould bases with high strength requirement.

供货状态 (原材表面硬度) Delivered Hardness from Steel Mill (Measured at Surface)

LKM P20 MOD

预硬至HB250-360 Prehardened to HB250-360

参照标准

Q AISI P20改良型

Comparable Standard

Q AISI P20 Modified

化学成分(%) Chemical Composition (Percentage by Mass)

未公开 Undisclosed

应用

- ✓ 长期生产之塑胶模模架
- ✓ 中小批量之塑胶模下模件
- ✓ 压铸模架

Application

- ✓ Mould base/plate with high strength requirement for plastic injection mould
- ✓ Core/movable part of plastic injection mould without high surface finish requirement
- ✓ Mould base for die casting die

物理性能 Physical Properties

温度(°C) Temperature	20-100	20-200	20-300
热膨胀系数 [10 ⁻⁶ m/(m x K)] Coefficient of Thermal Expansion	11.1	12.9	13.4

温度(°C) Temperature	20	200	300
热传导率 [W/(m x K)] Thermal Conductivity	34.2	33.8	32.0

▶▶ 纯洁度 Purity

A (硫化物类) Sulfide Type	B (氧化铝类) Alumina Type	C (硅酸盐类) Silicate Type	D (球状氧化物类) Globular Oxide Type
≤2.0	≤2.5	≤2.5	≤2.0

▶▶ 超声波检测

☞ SEP 1921-Test Group 3, Class C/c

▶▶ Ultrasonic Testing

☞ SEP 1921-Test Group 3, Class C/c

▶▶ 表面处理

☞ 可以透过氮化提高模具表面硬度，但其氮化温度建议不应高于500°C。如需进一步查询，请联系本司。

▶▶ Surface Treatment

☞ Suitable for nitriding process to increase surface hardness of the mould. The nitriding temperature is recommended to be held below 500°C. Please contact our company for further inquiry.



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