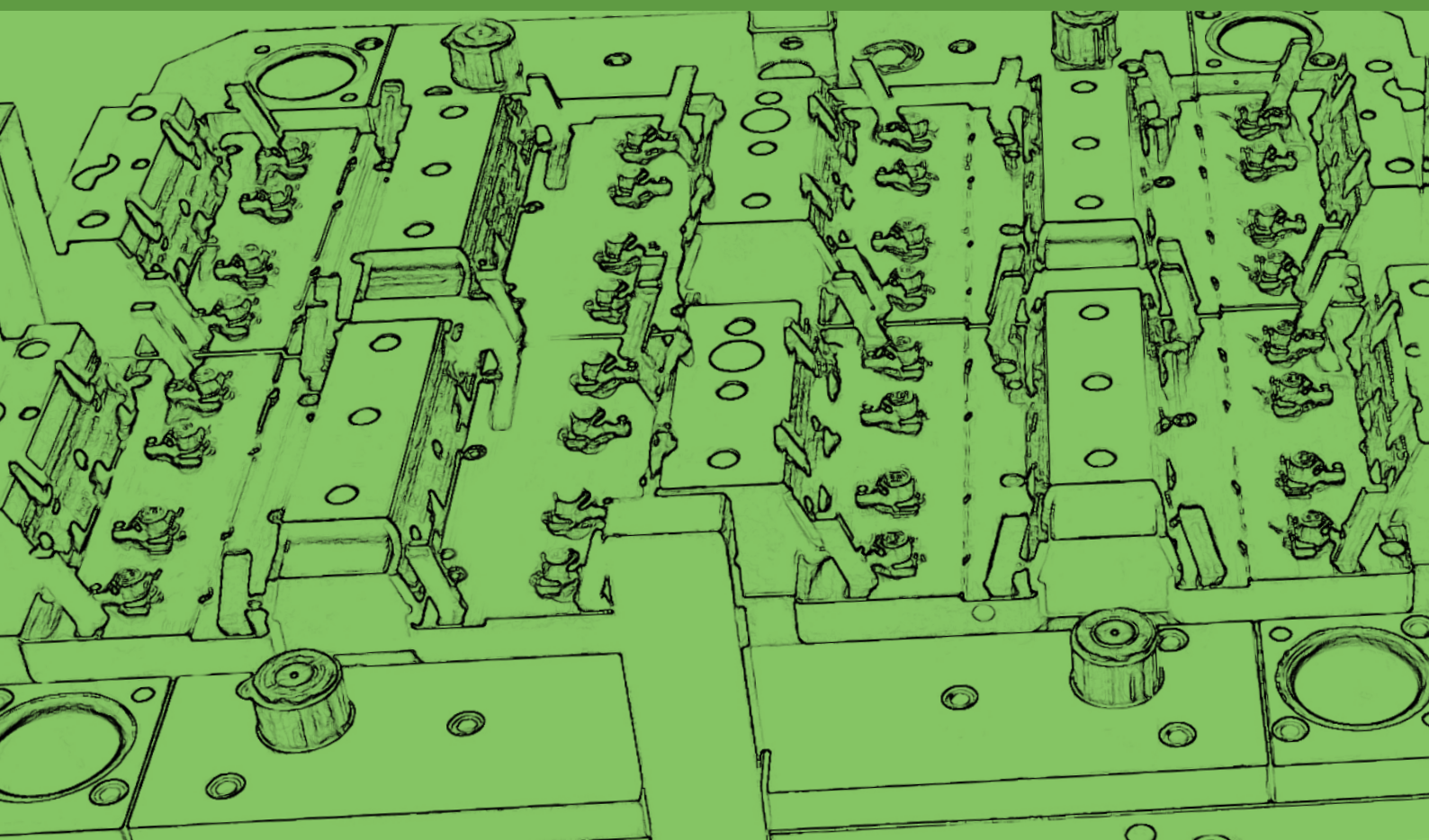




LKM738/738H

塑胶模具钢

Plastic Mould Steel

- 硬度均匀 Uniform Hardness
- 预硬材料 Prehardened Steel
- 中大型模具 Medium to Large Size Plastic Injection Mould

LKM738/738H 简介 Introduction

LKM738/LKM738H是龍記集團根据广大模具客户需求，开发的全球采购模具钢产品，化学成分标准参照美国AISI P20+Ni改良，或者德国W.Nr 1.2738；LKM738H是在LKM738基础上，提高供货的硬度，满足更高耐磨需求之预加硬塑胶模具钢。

LKM738/LKM738H经过龍記集團严格的品质系统检测，包括硬度、化学成分、超声波检测、金相分析等多项指标，检测合格才能入库。LKM738/LKM738H凭借其优质而稳定的品质赢得广大客户认可。

LKM738/LKM738H are developed by LKM which acquires globally around the world to fit high quality demand from wide range of customers. Both of them are made with reference to AISI P20+Ni or W.Nr 1.2738; LKM738H is delivered with a higher hardness which could provide better wear resistance comparing to LKM738.

LKM738/738H are subject to the strict LKM's internal IQC procedures including hardness test, chemical composition analysis, ultrasonic test and metallographical analysis. With their high and reliable quality, LKM738/LKM738H are recognized by our customers in extensive areas.

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

LKM738

预硬至HB290-330 Prehardened to HB290-330

LKM738H

预硬至HB330-380 Prehardened to HB330-380

参照标准

- Q AISI P20+Ni
- Q W.Nr 1.2738

Comparable Standard

- Q AISI P20+Ni
- Q W.Nr 1.2738

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

碳 C	硅 Si	锰 Mn	铬 Cr	钼 Mo	镍 Ni
0.37	0.2	1.10	2.0	0.25	1.0

应用

- ✓ 适用于高韧性、高磨光要求之中大型塑胶模具
- ✓ 家电外壳模具
- ✓ 汽车保险杠、仪表盘等汽车模具
- ✓ 复印机外壳等电脑文仪模具
- ✓ 不适用于生产具腐蚀性的胶料或添加剂

Application

- ✓ Plastic injection mould for medium production run with good toughness and surface finish, e.g. car bumper, dashboard housings for domestic appliance and office equipment. Not suitable for moulding corrosive resins

物理性能 Physical Properties

温度 (°C) Temperature	20-100	20-200	20-300	20-400	20-500	20-600	20-700
热膨胀系数 [10 ⁻⁶ m/(m x K)] Coefficient of Thermal Expansion	11.1	12.9	13.4	13.8	14.2	14.6	14.9

温度 (°C) Temperature	20	350
热传导率 [W/(m x K)] Thermal Conductivity	35.5	33.2

纯度度 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
≤1.5	≤2.0	≤2.0	≤2.0

超声波检测

(☺) SEP 1921-Test Group 3, Class E/e

Ultrasonic Testing

(☺) SEP 1921- Test Group 3, Class E/e

焊接处理

- ✱ 焊接前预热温度350℃
- ✱ 焊接使用专业焊枝 (LKM牌号Z04-P07-XX)
- ✱ 焊接后在550℃作去应力处理

Welding

- ✱ Preheating temperature: 350℃
- ✱ Welding rod: LKM Z04-P07-XX
- ✱ Stress relieving temperature after welding: 550℃

表面处理

✱ 可以通过氮化、镀铬或PVD等表面处理提高模具表面的硬度，延长模具的使用寿命

Surface Treatment

✱ Suitable for all nitriding processes, hard chromium plating or PVD coating to increase surface hardness and improve mould life

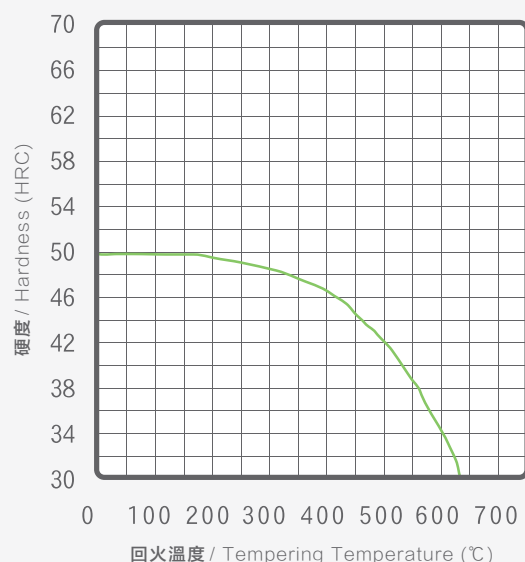


热处理工艺 Heat Treatment

锻造 Forging	软性退火 Annealing	淬硬 Quenching	回火 Tempering
1050-800℃	710-740℃	850-880℃	560-680℃

回火图 (试样尺寸 : $\varnothing 25 \times 50\text{mm}$; 油淬温度 : 880℃)

Tempering Curve (Sample dimension: $\varnothing 25 \times 50\text{mm}$; Quenched at 880℃ by Oil)



LKM[®] 龍記集團
LUNG KEE GROUP



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