

LKM2711

高韧性高耐磨塑胶模具钢

High Toughness High Wear Resistance Plastic Mould Steel

- ▶▶▶ 预硬材料 Prehardened Steel
- ▶▶▶ 高强度 High Strength
- ▶▶▶ 高韧性 High Toughness
- ▶▶▶ 中型模具 Medium Size Plastic Injection Mould

LKM2711 简介 Introduction

LKM2711是属于龙记特殊钢系列中之高韧性、高耐磨性预加硬塑胶模具钢，参照德国W.Nr 1.2711而开发。该材料具有良好的韧性，比普通AISI P20系列的材料具有更高的耐磨性和抛光性。

LKM2711经过龍記集團严格的品质检测系统，包括硬度、化学成分、超声波检测、金相分析等多项基本检测指标，因此材料品质非常稳定可靠。

LKM2711 is a high toughness, high wear resistance pre-hardened plastic mould steel from the LKM special steel series. It is developed with reference to the German standard W.Nr 1.2711. This material has better toughness than ordinary AISI P20 steel and has higher wear resistance and polishability.

LKM2711 is subject to the strict LKM's internal IQC procedures including hardness test, chemical composition analysis, ultrasonic test and metallographical analysis, to ensure the stability and reliability of the material.

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

LKM2711

预硬至HB315-385 Prehardened to HB315-385

参照标准

W.Nr 1.2711

Comparable Standard

W.Nr 1.2711

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

碳 C	锰 Mn	铬 Cr	钼 Mo	镍 Ni
0.55	0.8	0.70	0.25	1.7

应用

- ✓ 适用于形状复杂之中小型注塑模具
- ✓ 中等批量塑胶模具

Application

- ✓ Small to medium size of plastic injection mould with complicated structure
- ✓ Plastic injection mould for medium production run

物理性能 Physical Properties

温度(°C) Temperature	20-100	20-200	20-300	20-400	20-500
热膨胀系数 [10 ⁻⁶ m/(m x K)] Coefficient of Thermal Expansion	11.8	12.7	13.3	14.0	14.3

温度(°C) Temperature	20	350
热传导率 [W/(m x K)] Thermal Conductivity	37.5	36.0

▶▶▶ 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
≤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：300°C
- ✦ 焊接使用专业焊枝（LKM牌号Z04-P07-XX）
- ✦ 焊接后在500-550°C作去应力处理

▶▶▶ Welding

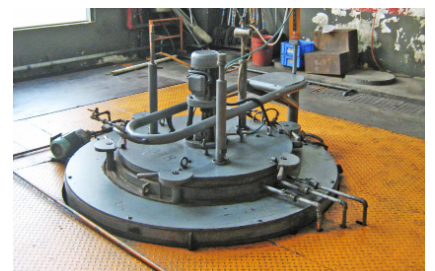
- ✦ Preheating temperature: 300°C
- ✦ Welding rod: LKM Z04-P07-XX
- ✦ Stress relieving temperature after welding: 500-550°C

▶▶▶ 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 and PVD coating to increase surface hardness and improve mould life

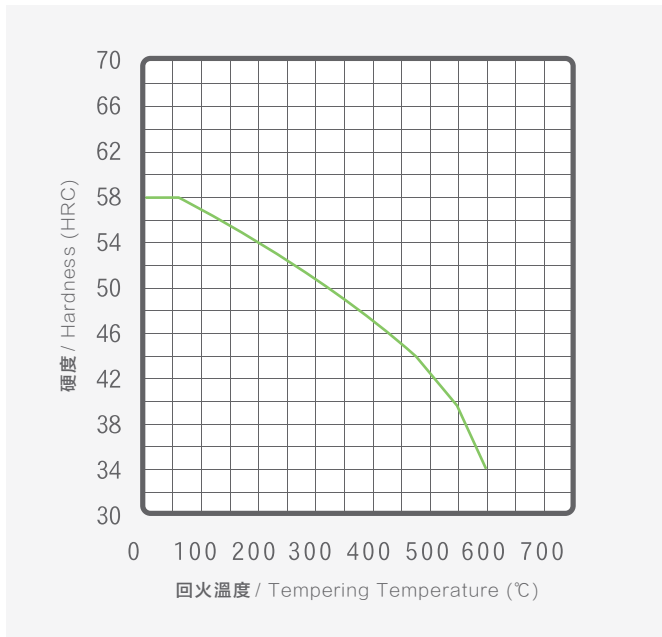


热处理工艺 Heat Treatment

锻造 Forging	软性退火 Annealing	淬硬 Quenching	回火 Tempering
1100-850°C	650-700°C	830-870°C	300-600°C

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

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



LKM® 龍記集團
LUNG KEE GROUP



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