

# LKM2767

## 高韧性塑胶及冷作工具钢

High Toughness Plastic Mould and Cold Work Steel

- ▶▶ 高韧性 High Toughness
- ▶▶ 高耐磨性 High Wear Resistance
- ▶▶ 较细型模具 Smaller Size Plastic Injection Mould

## LKM2767 简介 Introduction

LKM2767是属于龙记特殊钢系列中之冷作工具钢，参照德国W.Nr 1.2767标准而开发。具有极佳的韧性和耐磨性，可以淬硬到HRC50-54，既可以用于冲切厚度10mm以上的金属片五金模，又可以制作长寿命、形状复杂之较细型塑胶模具。

LKM2767 is a cold work tool steel from the LKM special steel series; it is developed with reference to the German standard W.Nr 1.2767. It possesses high toughness and wear resistance. It can be hardened to HRC50-54. The material can be used to make dies for shearing or blanking metal sheet with thickness 10mm or above as well as long production plastic injection mould with complicated structure.

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

LKM2767

退火至 $\leq$ HB262 Annealed to HB262 (max.)

### 参照标准

W.Nr 1.2767

### Comparable Standard

W.Nr 1.2767

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

碳 C	铬 Cr	钼 Mo	镍 Ni
0.45	1.4	0.3	4.1

### 应用

- ✓ 适用于制作五金模具，冲切厚度大于10mm之金属片材
- ✓ 韧性优良，用于制作高耐磨、高韧性要求且形状复杂之塑胶模具

### Application

- ✓ Dies for shearing and blanking of sheet metal with 10mm thick or above
- ✓ Small to medium size of through-hardened plastic injection mould with complicated structure

### 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	12.5	12.8	13.1	13.4

温度(°C) Temperature	20	200	300
热传导率 [W/(m x K)] Thermal Conductivity	28.0	30.0	31.5

### ▶▶ 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 Detection

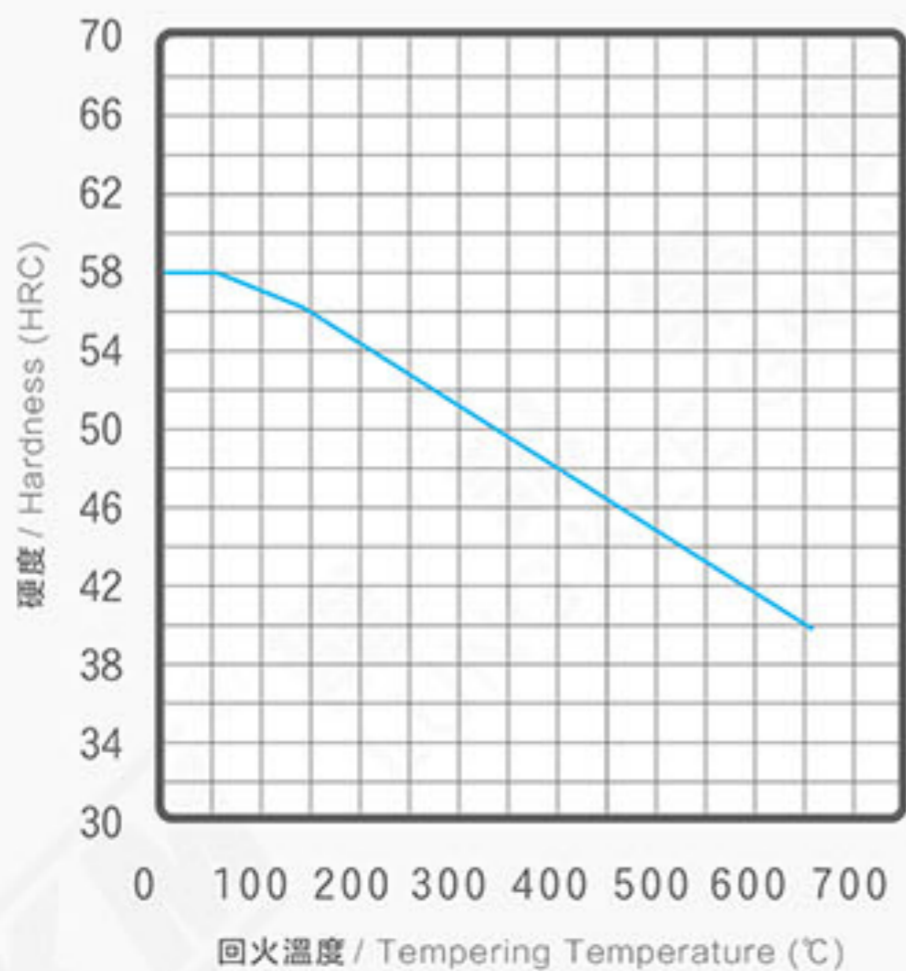
☞ SEP 1921- Test Group 3, Class E/e

### ▶▶ 热处理工艺 Heat Treatment

锻造 Forging	软性退火 Annealing	淬硬 Quenching	回火 Tempering
1050-850°C	610-650°C	840-870°C	180-300°C

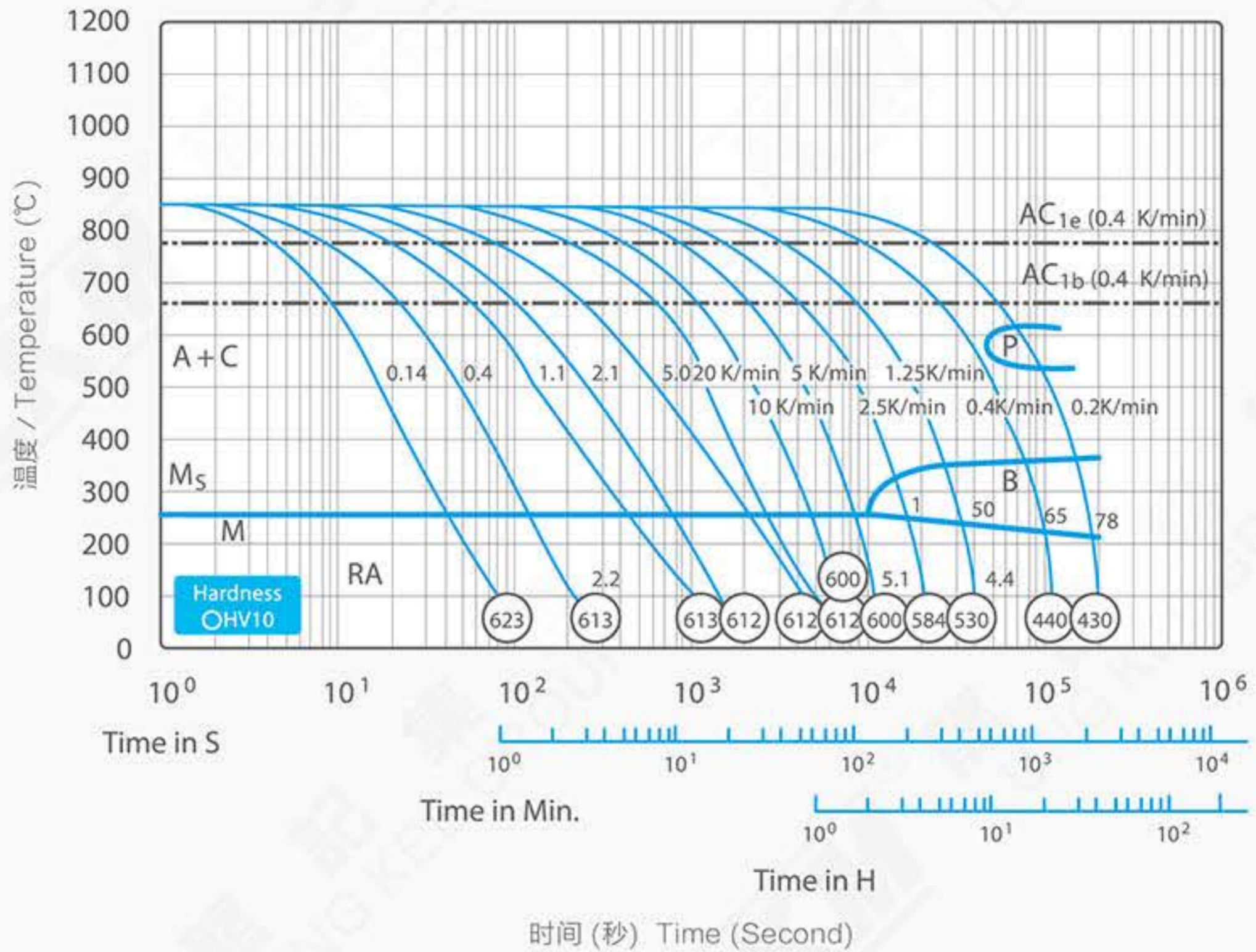
回火图 (试样尺寸 :  $\varnothing 25 \times 50\text{mm}$ ; 油淬温度 : 850°C)

Tempering Curve (Sample dimension:  $\varnothing 25 \times 50\text{mm}$ ; Quenched at 850°C by Oil)



### CCT图(连续冷却转变曲线图)

CCT Diagram ( Continuous Cooling Transformation Diagram)



**LKM**® 龍記集團  
LUNG KEE GROUP



#### 集团总公司 (HEAD OFFICE)

**龙记五金有限公司**  
**LUNG KEE METAL LTD**

香港新界沙田安群街1号京瑞广场2期15楼A室  
Unit A,15/F, Kings Wing Plaza 2, No.1 On Kwan Street,  
Sha Tin, New Territories, Hong Kong  
接单部 电话 Tel : (852) 2341 2321, 传真 Fax : (852) 2343 0990

网址 : [WWW.LKM.COM.CN](http://WWW.LKM.COM.CN)  
电邮 : [LKMSALES@LKM.COM.HK](mailto:LKMSALES@LKM.COM.HK)

**河源龙记金属制品有限公司**  
**HEYUAN LUNG KEE METAL PRODUCTS CO LTD**

中国广东省河源市高新技术开发区龙记大道  
Long Ji Da Dao, Hi-tech Development Zone, Heyuan,  
Guangdong Province, China  
电话 Tel : (86) 0762-3210 502 传真 Fax : (86) 0762-3210 501

**杭州龙记金属制品有限公司**  
**HANGZHOU LUNG KEE METAL PRODUCTS CO LTD**

中国浙江省杭州市萧山区杭州江东工业园区江东三路7711号  
7711 Jiangdong 3rd Road, Hangzhou Jiangdong Industrial  
Park, Xiaoshan District, Hangzhou, Zhejiang Province, China  
电话 Tel : (86) 0571-8213 3281 传真 Fax : (86) 0571-8213 3280

09/2015 Ref:S078