### LKM Steel Rainbow Chart

#### TA Series

**LKM2344 ESR**
- **Material:** H13 ESR SKD61 ESR 1.2344 ESR
- **Condition:** Annealed to HB225 (max)
- **Characteristics:** High toughness, good resistance to heat checking, good dimensional stability.
- **Applications:** Suitable for mould base/plate with high strength requirement for plastic injection mould.

**LKM2312 P20**
- **Material:** 1.2312 Prehardened to HB280 - 325
- **Characteristics:** Excellent machinability.
- **Applications:** Mould base/plate with requirement of high strength and high volume/speed machining for plastic injection mould.

**LKM2311 P20**
- **Material:** 1.2311 Prehardened to HB280 - 325
- **Characteristics:** Pre-hardened plastic mould steel.
- **Applications:** Mould base/plate with high strength requirement for plastic injection mould; core/movable part of mould base/plate.

**LKM2083**
- **Material:** Prehardened to HB250 - 330
- **Characteristics:** Economical choice of pre-hardened plastic mould steel.
- **Applications:** Plastic injection mould with good texturing property, e.g. car bumper, rear view mirror, decorative part, housing for lighting, LCD/LED TV, photocopier and printer; not suitable for moulding fibre-reinforce plastics.

**S-STAR 420**
- **Material:** Annealed to HB235 (max)
- **Characteristics:** Good through-hardening property, high resistance to thermal fatigue and hot erosion.
- **Applications:** Plastic injection moulding dies and components for die casting die, suitable for moulding corrosive resins.

**8418**
- **Material:** Modified ESR Annealed to HB241 (max)
- **Characteristics:** Good corrosion resistance, high wear resistance, better mirror polishability than common hot work steel.
- **Applications:** Heavy duty blanking, forming and coining tool which required good adhesive wear resistance.

**SUS420J2**
- **Material:** Modified Prehardened to HB250 - 330
- **Characteristics:** With special chemical composition adjustment and good forging process/forging properties; can be polished up to #8000.
- **Applications:** Plastic injection mould for medium production run with good texturing property, e.g. car bumper, plastic injection mould without high surface finish requirement.

**SKD11**
- **Material:** Prehardened to HB344 - 400
- **Characteristics:** Age hardening steel with high delivery hardness; excellent texturing and EDM processability.
- **Applications:** Suitable for moulding non-corrosive resins and thin wall section parts.

**PAC400**
- **Material:** Prehardened to HB250 - 320
- **Characteristics:** Good machinability, high corrosion resistance, excellent texturing and EDM processability.
- **Applications:** Suitable for moulding non-corrosive resins and thin wall section parts.

**N680**
- **Material:** Prehardened to HB250 - 320
- **Characteristics:** High toughness, good resistance to heat checking, excellent dimensional stability.
- **Applications:** Suitable for moulding non-corrosive resins and thin wall section parts.

**P125A1**
- **Material:** Prehardened to HB250 - 320
- **Characteristics:** Good through-hardening property, suitable for moulding high strength steel parts.
- **Applications:** Suitable for moulding non-corrosive resins and thin wall section parts.

**M1**
- **Material:** Prehardened to HB250 - 320
- **Characteristics:** Good through-hardening property, suitable for moulding high strength steel parts.
- **Applications:** Suitable for moulding non-corrosive resins and thin wall section parts.

**S136**
- **Material:** Prehardened to HB250 - 320
- **Characteristics:** Good through-hardening property, suitable for moulding high strength steel parts.
- **Applications:** Suitable for moulding non-corrosive resins and thin wall section parts.

**PAC430**
- **Material:** Prehardened to HB250 - 320
- **Characteristics:** Good machinability, high corrosion resistance, excellent texturing and EDM processability.
- **Applications:** Suitable for moulding non-corrosive resins and thin wall section parts.

**LKM2083H**
- **Material:** Prehardened to HB250 - 330
- **Characteristics:** Economical choice of pre-hardened plastic mould steel.
- **Applications:** Suitable for moulding non-corrosive resins and thin wall section parts.

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