



HS SPM/ HS SPM ESR

PLASTIC MOLD STEEL OF HIGH POLISHING PERFORMANCE

Introduction

HS SPM is modified 2738 plastic mold steel. Compared with HS SPM, HS SPM ESR has higher purity and better uniformity through electroslag remelting process.

The composition optimization and the special production process ensure that the two kinds of steel have good toughness, polishability, hardness uniformity, machining performance, thermal conductivity and weldability. They are suitable for nitriding, chrome plating and engraving.

Chemical properties

Steel Grade	C	Si	Mn	P	S	Cr	Mo	V	Ni
HS SPM/ HS SPM ESR	0.26-0.29	0.15-0.35	1.40-1.70	≤0.020	≤0.005	1.20-1.60	0.45-0.55	0.09-0.15	0.90-1.20

Application

HS SPM

- Plastic injection molds with a thickness of more than 400mm.
- Molds of automobile bumper and dashboard, and large injection molds.

HS SPM ESR

- Car lights, bumpers, dashboards, Interior decoration mould, etc.
- Plastic molds for household appliances.

Features

- Uniform hardness
- Excellent polishing performance
- Good machining performance
- Suitable for surface processing (such as chrome plating)
- Compared with 2738, the welding performance is improved
- The thermal conductivity is greatly improved
- Good hardenability, nitriding can be applied
- Good toughness
- Quenching + twice tempering, hardness 38-42HRC