



HS 2344

PRESSURE-RESISTANT HOT-WORKING DIE STEEL

Introduction

HS 2344 is pressure-resistant hot-working die steel. Its performance and use are basically the same as that of H13 steel, and it is one of the widely used hot work die steels. It can withstand huge mechanical stress, as well as great thermal stress caused by repeated heating and cooling.

Chemical properties

Steel Grade	C	Si	Mn	P	S	Cr	Ni*	Cu*	Mo	V
HS 2344	0.37-0.42	0.90-1.20	0.30-0.50	≤0.015	≤0.002	5.00-5.20	≤0.20	≤0.08	1.25-1.45	0.90-1.10

Application

- Suitable for making aluminum alloy die-casting molds.
- Suitable for making tools and mandrels used in hot extrusion and perforation, hammer forging dies, mechanical press forging dies, high-speed precision forging dies and plastic press dies, etc.

Features

- With electroslag remelting, the steel has uniform material, good hardenability, excellent machining performance and polishing performance, high toughness and plasticity, good high-and-low-temperature wear resistance, high temperature fatigue resistance and heat resistance.
- The steel has no cracks on the surface layer after repeated heating and cooling, and resistance to the impact and erosion of the liquid metal flow.