



## HSSD S136

### ADVANCED STAINLESS PLASTIC DIE STEEL

#### Introduction

As modified AISI 420 stainless plastic die steel, HSSD S136 steel has hardness of 45~52HRC, good resistance to corrosion, high polishing and high wear resistance. The steel has low repair cost and molds manufacturing cost when applied to plastic mold.

#### Chemical properties

Steel Grade	C	Si	Mn	P	S	Mo	Cr	V
HSSD S136	0.30~0.40	0.30~0.70	0.40~0.80	≤0.015	≤0.003	0.20~0.40	13.00~14.00	-

#### Application

- Injection dies for corrosive materials such as PVC, acetate, or dies that must work and be stored in humid environment.
- Injection dies that have large using wear (including thermosetting injection molding) or require a long working time, such as electronic parts, disposable meal knives, utensils, etc.
- to be used in production of optical products, such as cameras, sunglasses, chemical instruments and plastic products.

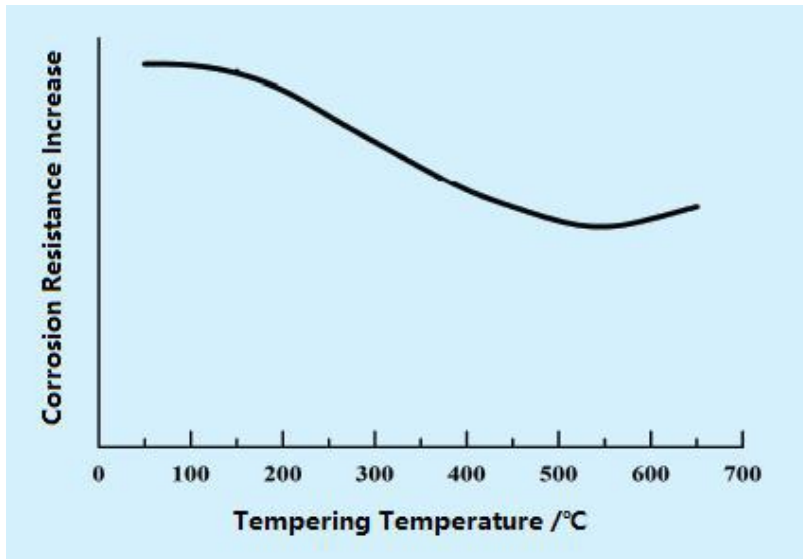
#### Features

- Excellent corrosion resistance

HSSD S136 can resist water, water vapor, weak organic acid, diluted nitrate, carbonate, etc.

Molds will not be rusty or contaminated for the operation in humid environment, or the use of corrosive plastic materials under normal conditions.

HSSD S136 can particularly show excellent corrosion resistance when tempered at low temperature and polished to a mirror



state.

### Recommend Heat Treatment

Heating Temperature/°C		Cooling Way	Hardness (HRC)	Tempering Temperature/°C	Hardness (HRC)
Preheating	Last Heating				
600~850	1020~1050	Oil cooling/ air cooling	52~55	500-650	34~40