

5CrNiMo

Steel: 1.2714

Corresponding Steel

Chemical Composition(%)

Grade and Chemical

Standard/Steel Grade

C

Si

Mn

Cr

Mo

Ni

V

Composition

GB	5CrNiMo	0.50~0.60	≤ 0.40	0.50~0.80	0.50~0.80	0.15~0.30	1.40~1.80	≤ 0.20
AISI	L6	0.65~0.75	0.10~0.50	0.25~0.80	0.60~1.20	≤ 0.50	1.25~2.00	
DIN	1.2714	0.50~0.60	0.10~0.40	0.60~0.90	0.80~1.20	0.35~0.55	1.50~1.80	0.05~0.15
JIS	SKT4	0.50~0.60	0.10~0.40	0.60~0.90	0.80~1.20	0.35~0.55	1.50~1.80	0.05~0.15

Brief Introduction:

Oil & air quenched hot work steel, good hardenability.Good toughness.Good thermal resistance.Good polishability.Suitable for surface treatment (e.g. chrome plated) .Forging dies of all types, hammer forging dies up to largest dimensions, tools for tube and rod extrusion such as rams, bolsters, mandrels, plungers, sleeves, die holders, backing plates, chipping beds, press dies for mould parts, deep engraving dies, containers for die casting presses, hot forming dies, bending and heavy embossing tools, hot mill rolls, hammers and pile drivers, hot punching tools, very hard cold work dies and punches, hot shear blades, blocks for dies, forging saddles, pressing spindles, shrink rings, armoured trim dies, hydro forming tools, plastic moulds, hot gripper and heading dies.

Shape & Dimension:

Forged:
Round: 140mm-800mm; Flat: 30-240mm*150-610mm; 250-500*250-1000

Rolled:
Round: 30mm-130mm

Delivery Condition:

Forged/Rolled, QT, Milled/Turned

Note:

5CrMnMo

Steel: 5CrMnMo

Corresponding Steel

Chemical Composition(%)

Grade and Chemical Composition

Standard/Steel Grade

C

Si

Mn

Mo

Cr

GB

5CrMnMo

0.50 ~ 0.60

0.25 ~ 0.60

1.20 ~ 1.60

0.15 ~ 0.30

0.60 ~ 0.90

AISI

None

DIN

None

JIS

None

Brief Introduction:

Hot die steel is a non-nickel forging die steel, which has the similar performance with 5CrNiMo . It is suitable for production of medium-sized forging dies (≤ 400 mm side length).Hot Die,medium-sized forging die.

Shape & Dimension:

Delivery Condition:

Note:

4Cr5MoSiV

Steel: H11

Corresponding Steel

Chemical Composition(%)

Grade and Chemical

Standard/Steel Grade

C

Si

Mn

Mo

Cr

V

Composition

GB	4Cr5MoSiV	0.33 ~ 0.43	0.80 ~ 1.20	0.20 ~ 0.50	1.10 ~ 1.60	4.75 ~ 5.50	0.30 ~ 0.60
AISI	H11	0.33 ~ 0.43	0.80 ~ 1.25	0.20 ~ 0.60	1.10 ~ 1.60	4.75 ~ 5.50	0.30 ~ 0.60
DIN	1.2343	0.33 ~ 0.41	0.80 ~ 1.20	0.25 ~ 0.50	1.10 ~ 1.50	4.80 ~ 5.50	0.30 ~ 0.50
JIS	SKD6	0.32 ~ 0.42	0.80 ~ 1.20	≤0.50	1.00 ~ 1.50	4.50 ~ 5.50	0.30 ~ 0.50

Brief Introduction:

It is a hot die steel which quenched by air, performance and service life higher than 3Cr2W8V. Applicable for hot punches, die casting dies, forging dies, hot shear blades, hot gripper dies, and extrusion tooling. And it is also used for aircraft, rockets and other structural components which worked temperature of 400 ~ 500 °C.

Shape & Dimension:

Forged Products:

Round: 60mm-800mm, Flat: 30-240mm*150-610mm

Rolled Products:

Round: 8mm-50mm; Flat: 12-60mm*205-610mm

Delivery Condition:

Rolled/Forged, Annealed/Turned/Milled

Note:

3Cr2W8V

Steel: H21

Corresponding Steel

Chemical Composition(%)

Grade and Chemical

Standard/Steel Grade

C

Si

Mn

W

V

Cr

Composition

GB/T 1299	3Cr2W8V	0.30 ~ 0.40	≤0.40	≤0.40	7.50 ~ 9.00	0.20 ~ 0.50	2.20 ~ 2.70
ASTM A681	H21	0.26~0.36	0.15 ~ 0.50	0.15~0.40	8.50 ~ 10.00	0.30 ~ 0.60	3.00 ~ 3.75
DIN EN ISO 4957	1.2581(X30W CrV9-3)	0.25~0.35	0.10~0.40	0.15 ~ 0.45	8.50 ~ 9.50	0.30 ~ 0.50	2.50 ~ 3.20
JIS G4404	SKD5	0.25~0.35	0.10~0.40	0.15 ~ 0.45	8.50~9.50	0.30~0.50	2.50~3.20

Brief Introduction:

This alloy is one of the Hot Work, tungsten containing tool steels. The tungsten content is beneficial for hot strength at red heat, although toughness is somewhat reduced. Application: used for hot working dies and tooling such as die casting, extrusion and hot forming of parts.

Shape &

Round: 60mm-400mm;

Dimension:

Flat: 30-240mm*150-610mm

Delivery

Condition:

Forged, Annealed, Turned/Milled

Note:

Steel:	1.2713								
Corresponding Steel	Chemical Composition(%)								
Grade and Chemical	Standard/Steel Grade	C	Si	Mn	Cr	Mo	Ni	V	
Composition :	DIN 17350	1.2713 (55NiCrMoV6)	0.50~0.60	0.10~0.40	0.65~0.95	0.60~0.80	0.25~0.35	1.50~1.80	0.07~0.12
Brief Introduction:	This is one of the special purpose, low alloy tool steel grades, similar to W group of low alloy tool steels. L6 contains nickel, chromium and molybdenum for a good combination of toughness and hardenability. Application: Typically used in machine tool applications such as bearing, springs, rollers or chuck parts, plastic moulds, molds for forging, stamps, die holders and piercers.								
Shape & Dimension:	<p>Forged Products:</p> <p>Round: 140mm-800mm Flat: 30-240mm*150-610mm; 250-500*250-1000</p> <p>Rolled Products:</p> <p>Round: 30mm-130mm</p>								
Delivery Condition:	Forged / Rolled, QT, Turned/Milled								
Note:									

4Cr5MoSiV1

Steel: H13

Corresponding Steel

Chemical Composition(%)

Grade and Chemical

Standard/Steel Grade

C

Si

Mn

Mo

Cr

V

Composition

GB/T 1299

4Cr5MoSiV1

0.32~0.45

0.80~1.20

0.20~0.50

1.10~1.75

4.75~5.50

0.80~1.20

ASTM A681

H13

0.32~0.45

0.80~1.25

0.20~0.60

1.10~1.75

4.75~5.50

0.80~1.20

DIN EN ISO
4957

1.2344

0.35~0.42

0.80~1.20

0.25~0.50

1.20~1.50

4.80~5.50

0.85~1.15

JIS G4404

SKD61

0.35~0.42

0.80~1.20

0.25~0.50

1.00~1.50

4.80~5.50

0.80~1.15

Brief

Introduction:

Shape & Dimension: Forged Products:

Round: 60mm-800mm Flat: 30-240mm*150-610mm

Rolled Products:

Round: 8mm-50mm Flat: 12-60mm*205-610mm

Delivery Condition:

Forged / Rolled, Annealed, Turned/Milled

Note: