
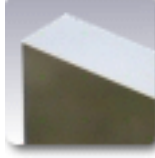
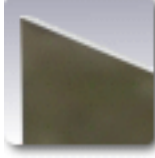



D3 Tool Steel | 1.2080 | Cr12 | X210Cr12 | X200Cr12 |

SKD1 Hot Work Steel

D3 Tool steel is a cold work steel belong to ASTM A681-1999 Steel Grade standard. D3 Special Steel China Supplier and factory Otai Special Steel Supply D3 Tool steel in Round bar, Plate, Flat bar, Square, Forging Ring and others any shape. And provide cutting, sawing, milled, machining processing.

Supply Form of D3 Steel -ASTM A681 Alloy Cold Work Tool Steel

			
Round	Plate	Sheet	Square

Supply Range of aisi D3 Tool Steel

D3 Steel Round Bar: diameter 5mm – 400mm

D3 Steel Plate: thickness 10 –500mm x width 200– 1400mm

D3 Steel Block: 210mm x 500-810mm

Chemical Composition of D3 Tool Steel Material

ASTM A681	C	Si	Mn	P	S	Cr	Mo	V
D3/T30402	1.40~	0.10~	0.20~	0.030	0.030	11.0~	0.70~	0.50~
	1.60	0.60	0.60	Max	Max	13.0	1.20	1.10
DIN 17350	C	Si	Mn	P	S	Cr	Mo	V
1.2080/X210Cr12	1.50~	0.10~	0.15~	0.030	0.030	11.0~	0.60~	0.90~
	1.60	0.40	0.45	Max	Max	12.0	0.80	1.10

GB/T 1299	C	Si	Mn	P	S	Cr	Mo	V
Cr12	1.40~	≤0.60	≤0.60	0.030	0.030	11.00~	0.70~	≤1.10
	1.60			Max	Max	13.00	1.20	
JIS G4404	C	Si	Mn	P	S	Cr	Mo	V
SKD1	1.40~	≤0.40	≤0.60	0.030	0.030	11.0~	0.80~	0.20~
	1.60			Max	Max	13.0	1.20	0.50

D3 tool Steel Equivalent and Related Speciation

USA	German	Japan	China	ISO
ASTM A681	DIN 17350	JIS G4404	GB/T 1299	ISO 4957
D3	1.2080	SKD1	Cr12	X200Cr12

ASTM AISI D3 Tool Steel Material Mechanical Properties

Hardness, Rockwell C: 63 HRC

Izod impact unnotched: 77 J.

Forged of hot work D3 Steel material metal

Forged D3 tool steel at 954 – 1065 °C. no forging when below 926 °C.

Heat Treatment of SAE/AISI D3Steel

- **D3 Steel Annealing**

Slowly heat to 871-898 °C, keep enough time, then cooling in furnace at 4-5 °C per hour.

- **D3 tool Steel Hardening & Quenching**

Quenching temperature / °C | salt bath furnace: 954

Quenching temperature / °C | controlled atmosphere furnace: 968

The heat preservation time/min: 10 to 20

Quenching medium: oil

- **Tempering Of D3 Steel**

Tempering temperature / °C : 204

After tempering hardness HRC or higher: 61

Application of Sae AISI D3 tool Steel

D3 tool steel used for cold work tool products. Like forming dies , thread rolling dies, cutting knife, etc.

Quality Assured of Sae D3 Steel

Quality assured by Our ISO 9001:2008 quality management system. Our all D3 tool steel all had by SEP 1921-84 ultrasonic inspection (UT Test). Quality Grade: E/e, D/d, C/c.

If you have any D3 steel inquiry and question for Price, Application, hot treatment, please don't hesitate contact us.

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