

**AISI M50 High Speed Tool Steel China suppliers, wholesale, distributors and stockholder. Otai Special Steel is manufacturers and have large quantity Stock in Warehouse.** We supply in hss steel Round bar, gauge plate steel, pipe / Tube,rod, square, hexagonal, blanks, plate, sheet, precision ground flat bar, precision ground bar stock and hollow bar. Provide black surface and black surface alloy steel material. AISI M50 is a American high speed alloy steel material grade.it is shock resisting steel. it belong to ASTM A600-1999 standard. UNS Metal Steel Grade T111350, It is a High Speed steel, ASTM M50 is a molybdenum intermediate type high speed steel, after quenching, surface hardness is 61 HRC min. Used for high speed cutting tool, machine tool automation, for cutting high strength material.. Our Tool Steel material 100 % ultrasonic tested with good price. Small size steel products make by hot rolled, large size steel products make by forging.



AISI SAE M50 Steel material properties datenblatt as below:

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Chemical composition data of Metal UNS T111350 M50 tool steel-

ASTM A600-1999

C	Si	Mn	P	S	Cr	Mo	V
0.78~0.88	0.20~0.60	0.15~0.45	0.030 max	0.030 max	3.75~4.50	3.90~4.75	0.80~

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Material equivalent of UNS T111350 | AISI M50 steel

USA	Germany	China	Japan	France	England	Italy	Poland	Czechia	Austria
AISI/SAE/UNS/ASTM	DIN, WNr	GB	JIS	AFNOR	BS	UNI	PN	CSN	ONOR
M50/UNS T111350/A600					BM50				

### Physical properties of HSS UNS T111350 | M50 Tool Steel

- Density: 8.9kg/m3
- Thermal conductivity:
- Forging ratio: 5:1 Minimum
- Microstructure:
- Magnetic:

### Mechanical properties of Alloy Steel UNS T111350 | M50 High Speed Tool Steel

Hardness: Annealing: 248 HB max, Q+T: 61 HRc Min, different hardness according to different Tempering temperature.

- Yield strength:

### Heat treatment of AISI M50 tool steel

- Annealing: Annealing temperature/°C: 750~790; After the annealing, degree of hardness ≤HBS: 255
- Quenching: Hardening temperature/°C: 1104, Quenching in Salt bath furnace
- Tempering: Commonly used drawing temperature/°C:5382; After tempering hardness HRC : 61 HRc Min
- Normalizing: at Normalizing temperature, then cool in furnace

### Forged steel properties of M50 high tool steel

For forging UNS T111350 | M50 steel, Slowly Pre-heat, at temperature/°C: 900~1100 Forged

### Processing of HSS Steel Material UNS T111350 | M50

Otai Special provide the Grinding, milling , polishing, turning, drilling and others machining service as your required tolerances and size.

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### Packing of AISI M50 steel

By steel Wire Bundling then put in container, or as customer require packing.

Contact us now! Free sample waiting for you.

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