

**SKH59 tool steel stockholders and suppliers, in china.** Otai Special Steel are suppliers of SKH59 tool steel in round bar, plate, sheet and block which can be bandsaw cut to your requirements. A high carbon high chromium, high molybdenum, high cobalt, high speed tool steel grade offering very high wear resistance and toughness. SKH59 high speed tool steel is a high hardness, high heat-hardness alloy tool steel belong to HSS series.



We welcome export enquiries for tool steel. Please contact our sales team for further details.

### Related Specifications

JIS G4403 GB/T 9943 AISI ASTM A600 UNS T11342 BS 4659 DIN W-Nr 17350-1.3247 SS 2716 ISO 4957 - HS 2-9-1-8

### Chemical Composition of SKH59 Tool Steel Analysis

Grade NO.	C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	V(%)	W(%)	Co(%)
M42-ASTM	1.05~	0.15~	0.15~	≤0.030	≤0.030	3.50~	9.00~	0.95~	1.15~	7.75~
A681	1.15	0.65	0.40	≤0.030	≤0.030	4.25	10.00	1.35	1.85	8.75
1.3247-DIN	1.05~	≤0.45	≤0.40	≤0.030	≤0.030	3.60~	9.00~	1.00~	1.20~	7.50~
17350	1.12	≤0.45	≤0.40	≤0.030	≤0.030	4.40	10.0	1.30	1.80	8.50
<b>SKH59-JIS</b>	<b>1.05~</b>	<b>≤0.70</b>	<b>≤0.40</b>	<b>≤0.030</b>	<b>≤0.030</b>	<b>3.50~</b>	<b>9.00~</b>	<b>0.90~</b>	<b>1.20~</b>	<b>7.50~</b>
<b>G4403</b>	<b>1.15</b>	<b>≤0.70</b>	<b>≤0.40</b>	<b>≤0.030</b>	<b>≤0.030</b>	<b>4.50</b>	<b>10.00</b>	<b>1.30</b>	<b>1.90</b>	<b>8.50</b>
W2Mo9Cr4VCo8-	1.05~	0.15~	0.15~	≤0.030	≤0.030	3.50~	9.00~	0.95~	1.15~	7.75~
GB/T 9943	1.15	0.65	0.40	≤0.030	≤0.030	4.25	10.00	1.35	1.85	8.75

2716-SS 14	1.05~	0.25~	≤0.40	≤0.030	≤0.030	3.50~	9.00~	0.90~	1.30~	7.50~
	1.20	0.65				4.50	10.0	1.40	1.90	8.50
BM42-BS 4659	1.00~	≤0.40	≤0.40	≤0.030	≤0.030	3.50~	9.00~	1.00~	1.00~	7.50~
	1.10					4.25	10.0	1.30	2.00	8.50
HS 2-9-1-8-ISO 4957	1.05~	≤0.70	≤0.40	≤0.030	≤0.030	3.50~	0.90~	0.90~	1.20~	7.50~
	1.15					4.50	1.30	1.90	1.90	8.50

### Equivalent material of High Speed Tool Steel SKH59

- USA AISI M42 ASTM A681
- Germany DIN WN-r 1.3247 DIN 17350
- Japanese JIS SKH59 G4403
- Chinese W2Mo9Cr4vCo8 GB/T 9943
- Swedish 2716 SS 14
- Britain BM42 BS 4659
- ISO HS 2-9-1-8 4957

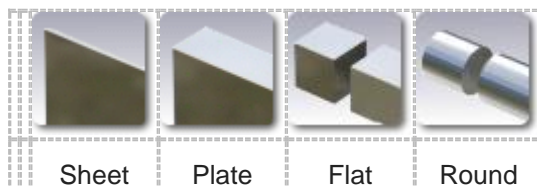
### Supply Form and Range of JIS SKH59 Tool Steel

Otai Special Steel supply round bar, flat bar, plate and square block. Round bar can be sawn to your requirement. Plate multiple cutting pieces, Rectangular all can be sawn , machining and milled from flat bar or plate as your size and design drawing. Round bar also can supply Ground Steel bar as your tolerances as precision finished quality.

SKH59 Tool Steel Round bar: Diameter Ø2mm to 400mm

SKH59 Tool Steel Plate: Thickness 2mm to 500mm x Width 200 - 2300mm

SKH59 Tool Steel flat bar: 2mm-80mm x 2mm x 105mm x Length



### Application of JIS High Speed Tool Steel SKH59 material Grade number

Because of high speed tool steel SKH59 is grinding performance is good, so can be used to manufacture all kinds of complex high precision cutting tool.

Typical Application like Scraper, rolling cutter, iron knives, drill bits,



etc

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### Forging of Tool Steel HSS JIS SKH59

982-1093°C, heat thoroughly, then start forging. slowly cool in furnace.

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### Annealing of SKH59 Steel JIS HSS tool material

Heat to 871°C, soak thoroughly. then cool slowly in heat treatment furnace

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### Stress Relieving of JIS SKH59 High Speed Tool Steel

Heat slowly the SKH59 Steel component to 600-650°C and soak well (about two hours) ,  
Then Cool slowly in the furnace.

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### Tempering of High Speed Tool Steel JIS SKH59 steel grade

Tempered SKH59 Tool Steel for three times at 515-593°C, then cool slowly at  
furnace. Typical Tempering as below table:

Temperature [°C]	515	550	600
Hardness [HRC]	67	69	63

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### Hardening of SKH59 Tool Steel HSS Material

Hardening SKH59 Steel Tool component at 1160-1180°C in salt, or 1180-1190°C in atmosphere or vacuum furnaces.

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#### **Quenching of SKH59 Tool Steel HSS**

Quenching SKH59 tool steel at 538°C, Then Cool it in air.

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#### **Final Grinding of JIS SKH59 Tool Steel**

For get high precision and smooth surface, the grinding the SKH59 steel material is necessary. choose correct wheel for grinding SKH59. If dry grinding, the soft wheel is advice.

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#### **Quality Assured and Certification of SKH 59 steel**

Quality control by our ISO 9001:2008 quality system. All steel material MTC certification is supplied follow the orders.

**Contact us now! free Sample waiting for you!**

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