

OTAI SPECIAL STEEL is ASTM 4340 Alloy steel stockholders and suppliers from china. we have more 16 years experience in 4340 steel supply.

4340 Steel is a high quality Quenched and Tempered Alloy Structural steel, It belong to the high quality medium carbon, Oil Quenched & Tempered Hardenss is 28-34 HRC. 4340 Annealing delivery hardenss less than 250HB.

4340 Alloy structural steel properties is very simliar with GB 40CrNiMo steel, JIS SNCM439 and DIN 1.6511 36CrNiMo4 Alloy structural steel. At most work environment, 4340 is equivalent with 40CrNiMo, 1.6511 36CrNiMo4, SNCM439 steel.

**Related Specifications** ASTM A29/A29M DIN EN 10083/3 JIS G4053 GB GB/T 3077

### Form of Supply

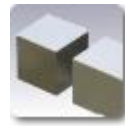
ASTM 4340 Alloy structural steel, we can supply the 4340 round bar, steel flat bar, plate, hexagonal steel bar and steel square block. 4340 steel Round bar can be sawn to your required lengths as one offs or multiple cut pieces. 4340 Rectangular pieces can be sawn from flat bar or plate to your specific sizes. Ground tool steel bar can be supplied, providing a quality precision finished bar to tight tolerances.



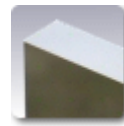
Round



sheet



Square



Plate

### Chemical composition

C (%)	0.38~ 0.43	Si (%)	0.15~0.35	Mn (%)	0.60~ 0.80	P (%)	≤0.035
S (%)	≤0.040	Cr (%)	0.70~0.90	Mo (%)	0.20~ 0.30	Ni (%)	1.65~ 2.00

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## Applications

ASTM 4340 steel is a alloy structural steel, 4340 is used for engineering structural, Used as require good toughness, high strength, as well as the important conditioning of large size, heavy machinery such as high load of axial, turbine shaft, larger than 250 mm in diameter of helicopter rotor shaft, turbojet engine turbine shaft, blade, high load of transmission parts, fasteners of the crankshaft. Gear, etc.; Can also be used for operating temperature over 400 °C of rotor shaft and blade, etc.; And after nitriding processing can also be used to make special performance requirements of the important parts, after low temperature tempering or can be used for ultra-high strength steel after isothermal quenching

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## Regular size and Tolerance

### 1) Hot Rolled round bar

Diameter (mm)	Diameter Tolerance (mm)	Diameter (mm)	Diameter Tolerance (mm)
≤12.70	-0.13 ~0.30	>50.80~63.5	-0.25~0.76
12.7~25.40	-0.13~0.41	>63.50~76.20	-0.25~1.02
>25.4~38.10	-0.15~0.51	>76.20~101.60	-0.30~+1.27
>38.1~50.80	-0.20~0.64	>101.60~ 203.20	-0.38~3.81

### 2) Hot Rolled steel plate

Thickness (mm)	Thickness Tolerance (mm)	Thickness (mm)	Thickness Tolerance (mm)
≤25.4	-0.41~0.79	>127~152	-1.60~2.39
>25.4~76	-0.79~1.19	>178~254	-1.98~3.18
>76~127	-1.19~1.60	>254~305	-2.39~3.96

Others 4340 have not specified size, pls [contact](#) our experienced sales team.

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## Processing

4340 tool steel round bar and flat sections can be cut to your required sizes. 4340 tool steel ground bar can also be supplied, providing a high quality tool steel precision ground tool steel bar to your required tolerances. 4340 steel is also available as Ground Flat Stock / Gauge Plate, in standard and nonstandard sizes.

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Contact our experienced sales team to help you with your 4340 Tool steel questions and enquiry by [Email](#) or Telephone. The questions will be reply in 24 hours.

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**OTAI SPECIAL STEEL CO., LTD**

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