

GB 60SI2MN steel stockholders and China suppliers. Otai Special Steel have more 16 years experience in GB 60SI2MN Spring Steel round bar, flat bar., rod bar, wire and plate supply.

GB 60SI2MN Steel is a high quality Alloy Spring Steel, It belong to the high quality high carbon alloy Spring Steel. Quenched & Tempered Hardness is 28-34 HRC. 60SI2MN steel Annealing delivery hardenss less than 250HB.

**Related Specifications ASTM A29/A29M DIN EN 17221 JIS G4801 GB GB/T 1222**

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### Form of Supply

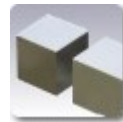
GB 60SI2MN Spring Steel China Supplier and Stocker, Otai Special Steel can supply the round bar, steel flat bar, plate, hexagonal steel bar and steel square block. AISI 60SI2MN steel Round bar can be sawn to your required lengths as one offs or multiple cut pieces. 60SI2MN steel Rectangular pieces can be sawn from flat bar or plate to your specific sizes. Ground Spring Steel bar can be supplied, providing a quality precision finished bar to tight tolerances.



Round



sheet



Square



Plate

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### Chemical composition

|      |               |       |           |       |               |      |        |
|------|---------------|-------|-----------|-------|---------------|------|--------|
| C(%) | 0.56-<br>0.64 | Si(%) | 1.50-2.00 | Mn(%) | 0.60-<br>0.90 | P(%) | ≤0.035 |
| S(%) | ≤0.035        | Cr(%) | 0.35max   | Ni(%) | 0.35max       |      |        |

## Equivalent Of 60SI2MN alloy Spring Steel

| USA               | Germany           | China   | Japan   | France | England | Italy | Poland | ISO     | Austria | Sweden | Spain |
|-------------------|-------------------|---------|---------|--------|---------|-------|--------|---------|---------|--------|-------|
| AISI/SAE/ASTM/UNS | DIN,WNr           | GB      | JIS     | AFNOR  | BS      | UNI   | PN     | ISO     | ONORM   | SS     | UNE   |
|                   | 60Si7 /<br>1.0909 | 60Si2Mn | 60SI2MN | 60S7   |         |       |        | 61SiCr7 |         |        |       |
|                   |                   |         |         |        |         |       |        |         |         |        |       |

### Heat treatment Related

#### ① Annealing of 60SI2MN Spring Steel

Slowly heated to 740–770 °C and allow enough times, let the steel to be thoroughly heated, Then cool slowly in the furnace. The 60SI2MN tool steel will get MAX 250 HB (Brinell hardness) .

#### ② Hardening of 60SI2MN Spring Steel

60SI2MN steels should be heated uniformly to 830–860° C (1526–1580° F) until completely heated through. About 30 min per 25 mm of ruling section is to be provided and then the steels should be immediately quenched in oil. Get Hardness 61 Min.

#### ③ Tempering of 60SI2MN Spring Steel

Tempering of 60SI2MN steels is performed at 480–530° C, Soak well at the selected temperature and soak for at least one hour per 25mm of total thickness. Hardness values at different temperatures after tempering HRC: 150° C–61HRC, 200° C–60HRC, 300° C–56HRC, 400° C–51HRC, 500° C–43HRC, 550° C–38HRC, 600° C–33HRC, 650° C–29HRC.

### Mechanical Properties

The mechanical properties of 60SI2MN Spring Steels are outlined in the following table.

|                  | Conditions        |            |                   | Hardness     | Hardness     |
|------------------|-------------------|------------|-------------------|--------------|--------------|
| Tensile strength | to yield strength | Elongation | Reduction of area | (Hot Rolled) | (Cold Drawn) |

|                   |                            |                    |             |                       |
|-------------------|----------------------------|--------------------|-------------|-----------------------|
| $\sigma_b$ (MPa): | $\sigma_{0.2}$             | $\delta_{10}$ (%): | $\psi$ (%): | $\leq 321\text{HB}$ ; |
| $\geq 1274(130)$  | (MPa): $\geq$<br>1176(120) | $\geq 5$           | $\geq 25$   |                       |

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## Applications

60SI2MN steels, Highlight the advantage is good hardenability, another hot working performance, comprehensive mechanical properties,

Decarburization resistance is also good big cross section of various important spring, such as automobile, locomotive, large plate spring, spring, etc. 60SI2MN Spring main used for heavy vehicles, tractors, industrial production load, stress and the diameter of the larger plate spring and helical spring

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## Regular size and Tolerance

Steel round bar: Diameter  $\varnothing$  5mm - 3000mm

Steel plate: Thickness 5mm - 3000mm x Width 100mm - 3500mm

Steel Hexagonal bar: Hex 5mm - 105mm

Others 60SI2MN have not specified size, pls [contact](#) our experienced sales team.

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## Processing

GB 60SI2MN Spring Steel round bar and flat sections can be cut to your required sizes. 60SI2MN Spring Steel ground bar can also be supplied, providing a high quality Spring Steel precision ground Spring Steel bar to your required tolerances. GB 60SI2MN 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 60SI2MN Spring 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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