

[EN 10111 S420N steel plate/sheet](#) for fine-grain structural steel

Key words: S420N steel plate/sheet, EN 10111 S420N steel plate/sheet, [S420N steel plate/sheet](#) supplier/Chinese supplier, S420N steel plate/sheet price, S420N steel plate/sheet mechanical property.

EN 10111 S420N steel equivalent grade:

S420N steel plate/sheet is in EN 10111 standard, the grade number is 1.8902. The equivalent materials of S420N steel are DIN 1614/2 StE 420, NFA 36-301 E 420 R, UNI 5867 Fe E 420 KGN, ASTM - SAE A 255 Gr. D.

|  |            |            |              |             |
|--|------------|------------|--------------|-------------|
| S420N<br>EN 10111<br>Material # 1.8902 | DIN 1614/2 | NFA 36-301 | UNI 5867     | ASTM - SAE  |
|  | StE 420    | E 420 R    | Fe E 420 KGN | A 255 Gr. D |

[EN 10111 S420N steel chemical composition](#) %:

Main chemical composition of EN 10111 S420N steel is carbon max 0.20, silicon max 0.60, manganese from 1.0-1.7, phosphorus max 0.030, Sulphur max 0.25, chromium max 0.30. More detailed information about S420N steel, please refer to the down table:

| Grade | C<br>max | Si<br>max | Mn<br>max   | P<br>max | S<br>max | N<br>max | AL<br>max | Nb<br>max | V<br>max | Ti<br>max | Cr<br>max | Ni<br>max | Mo<br>max | Cu<br>max | CEV<br>max |
|-------|----------|-----------|-------------|----------|----------|----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|------------|
| S420N | 0.2      | 0.6       | 1.0-<br>1.7 | 0.03     | 0.25     | 0.025    | 0.02      | 0.05      | 0.2      | 0.05      | 0.3       | 0.8       | 0.1       | 0.55      | 0.52       |

[EN 10111 S420N steel mechanical property](#):

[EN 10111 S420N steel plate/sheet](#) is a hot rolled structural steels, which shall be done low temperature charpy\_V impacting test under EN10025 standard, the temperature shall be minus 20 centi degree, and the impacting energy shall be min 27J. More detailed information about S420N steel, please refer to the down table:

| Grade | Yield Strength<br>(Min Mpa) Thickness(mm) |       |        |       | Tensile Strength<br>(Mpa) |         | Impacting Test |    |
|-------|---|-------|--------|-------|---------------------------|---------|----------------|----|
|       | ≤ 16                                      | 16-40 | 40-100 | ≥ 100 | T<100                     | T>100   | °C             | J  |
| S420N | 420                                       | 400   | 390    | 340   | 520-680                   | 500-650 | -50            | 27 |

ICE steel is the professional Chinese steel exporter, especially in fine-grain structural steel. We keep 10000 tons ex-stock in our warehouse, and the MTC and sample of EN 10111 S420N steel are available, so if need, welcome to contact ICE steel sales team.

**Ice steel — The most professional exporter on weathering resistant steel**

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