



EN 10111 S420NL steel plate/sheet for fine-grain structural steels, normalised rolled steels

EN 10111 S420NL steel plate/sheet,EN 10111 S420NL steel plate/sheet, under EN standard, we can regard S420NL steel plate/sheet as fine-grain structural steels, normalised rolled steels.EN 10111 S420NL is mainly used as fine-grain structural steels, normalised rolled steels.

EN 10111 S420NL steel plate/sheet is a hot rolled structural steels,which under specification EN 10025_3.The yield strength of S420NL shall be above 420Mpa for the thickness belows 16 millimeter.The tensile strength for thickness belows 100 millimeter of this steel grade S420NL shall be within 520_680Mpa.

Chemical Composition of EN S420NL steel

| Grade | C max | Si max | Mn max | P max | S max | N max | AL max | Nb max | V max | Ti max | Cr max | Ni max | Mo max | Cu max | CE V max |
|--------|----------|-----------|-----------|----------|----------|----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|----------------|
| S420NL | 0.2 | 0.6 | 1.0-1.7 | 0.025 | 0.02 | 0.025 | 0.02 | 0.05 | 0.2 | 0.05 | 0.3 | 0.8 | 0.1 | 0.55 | 0.52 |

Mechanical Properties of EN S420NL steel

| Grade | Yield Strength (Min Mpa) Thickness(mm) | | | | Tensile Strength (Mpa) | | Impacting Test | |
|--------|---|-------|--------|-------|---------------------------|---------|----------------|----|
| | ≤ 16 | 16-40 | 40-100 | ≥ 100 | T<100 | T>100 | °C | J |
| S420NL | 420 | 400 | 390 | 340 | 520-680 | 500-650 | -50 | 27 |

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