

**Fine-grain structural steels, normalised rolled steel EN10111 S275NL steel plate**

S275NL steel plate, under EN10111 standard S275NL steel plate, under EN10111 standard, we can regard S275NL steel plate as Fine-grain structural steels, normalised rolled steel

S275NL steel plate is one mainly of Fine-grain structural steels, normalised rolled steel, S275NL steel plate is a hot rolled structural steels, which technical delivery conditions for normalized or normalized rolled in weldable fine grain structural steel grade. It is also regarded as DIN:TStE285 and BS:43EE

|  |                            |               |
|--|----------------------------|---------------|
| S275NL<br>EN 10111 MATERIAL#<br>1.0491 | Comparison of steel grades |               |
|  | UNE36081                   | AE 285 KT     |
|  | DIN17102                   | T StE 285     |
|  | UN                         | Fe E 275 KT N |
|  | BS4360                     | 43 EE         |

**Chemical analysis -% by mass\***

| Chemical elements | C    | Si   | Mn        | P     | S     | Cu   | Cr   | Ni   | V    | Nb   | Al   |
|-------------------|------|------|-----------|-------|-------|------|------|------|------|------|------|
| %by mass          | max  | max  | max       | max   | max.  | max  | max  | max  | max  | max  | min  |
|                   | 0.16 | 0.40 | 0.50-1.50 | 0.025 | 0.020 | 0.55 | 0.30 | 0.30 | 0.05 | 0.05 | 0.02 |

**Mechanical properties**

| thickness   | Yield StrengthReH[N/mm2] transv.min. | TensileStrengthRm[N/mm2]transv. | Fracture Elongation[%] transv. min. | Notch Impact Energy1)Ch Vcomplete samplelongitud. min [J] |        |
|-------------|--------------------------------------|---------------------------------|-------------------------------------|---|--------|
| t ≤ 16mm    | 275                                  |                                 |                                     | +20   | KV 40J |
| t >16mm     | 265                                  |                                 |                                     | 0   | KV 34J |
| t < 3mm     |                                      | 370-510                         |                                     | -10   | KV 30J |
| t ≥ 3mm     |                                      |                                 |                                     | -20   | KV 27J |
| Up to 1.5mm |                                      |                                 |                                     | -30   | KV 23J |
| 1.51-2.00mm |                                      |                                 | 24                                  | -40   | KV 20J |
| 2.01-2.50mm |                                      |                                 |                                     | -50   | KV 16J |
| 2.51-2.99mm |                                      |                                 |                                     |   |        |
| ≥ 3mm       |                                      |                                 |                                     |   |        |

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