

EN 10111 S275N steel plate/sheet for fine-grain structural steel

Key words: S275N steel plate/sheet, EN 10111 S275N steel plate/sheet, S275N steel plate/sheet supplier/Chinese supplier, S275N steel plate/sheet price, S275N steel plate/sheet mechanical property.

EN 10111 S275N steel equivalent grade:

S275N steel plate/sheet is in EN 10111 standard, the grade number is 1.0490. The equivalent materials of S275N steel are UNE36081 AE285KG/AE285KW, DIN17102 STE285, UN Fe E 275KG N

| S275N EN 10111 MATERIAL# 1.0490 | Comparison of steel grades | |
|------------------------------------|----------------------------|-----------------|
| | UNE36081 | AE285KG/AE285KW |
| | DIN17102 | STE285 |
| | UN | Fe E 275KG N |

EN 10111 S275N steel chemical composition %:

Main chemical composition in EN 10111 S275N steel is carbon max 0.18, silicon max 0.40, manganese from 0.50-1.50, phosphorus max 0.030, Sulphur max 0.025, chromium max 0.30. More detailed information about S275N steel, please refer to the down table:

| Chemical elements | C max | Si max | Mn | P max | S max. | Cu max | Cr max | Ni max | V max | Nb max | Al min |
|-------------------|-------|--------|-----------|-------|--------|--------|--------|--------|-------|--------|--------|
| %,by mass | 0.18 | 0.40 | 0.50-1.50 | 0.030 | 0.025 | 0.55 | 0.30 | 0.30 | 0.05 | 0.05 | 0.02 |

EN 10111 S275N steel mechanical property:

EN 10111 S275N steel is one mainly of Fine-grain structural steels, normalised rolled steel, which with a minimum impact energy of 20J at temperatures not lower than -20 degree and the tensile strength of S275N is 370 to 510MPa. More detailed information about S275N steel, please refer to the down table:

| thickness | Yield Strength ReH[N/mm2] transv.min. | TensileStrengthRm[N/mm2]transv. | Fracture Elongation[%]transv. min. | Notch Impact Energy1)Ch Vcomplete samplelongitud. min [J] |
|---|---------------------------------------|---------------------------------|------------------------------------|--|
| t ≤ 16mm t > 16mm | 275 265 | | | +20 KV 31J 0 KV 27J -10 KV 24J -20 KV 20J -40 - -50 - |
| t < 3mm t ≥ 3mm | | 370-510 | | |
| Up to 1.5mm 1.51-2.00mm 2.01-2.50mm 2.51-2.99mm ≥ 3mm | | | 24 | |
| | | | | |

ICE steel is the professional Chinese steel exporter, especially in fin-grain structural steel. We keep 10000 tons ex-stock in our warehouse, and the MTC and sample of EN 10111 S275N 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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