

Fine-grain structural steels, normalised rolled steel EN10111 S275N steel plate

S275N steel plate, under EN10111 standard S275N steel plate, under EN10111 standard, we can regard S275N steel plate as Fine-grain structural steels, normalised rolled steel
 S275N steel plate is one mainly of Fine-grain structural steels, normalised rolled steel,S275N steel plate is under EN10111 standard equivalent to DIN:StE285,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

| | | |
|---------------------------------------|----------------------------|-----------------|
| S275N EN 10111 MATERIAL# 1.0490 | Comparison of steel grades | |
| | UNE36081 | AE285KG/AE285KW |
| | DIN17102 | STE285 |
| | NFA 36-207 | - |
| | UN | Fe E 275KG N |

Chemical analysis -% by mass*

| 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 |

Mechanical properties

| 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 | | | 31J +20 KV |
| t < 3mm t ≥ 3mm | | 370-510 | | 27J 0 KV |
| Up to 1.5mm 1.51-2.00mm 2.01-2.50mm 2.51-2.99mm ≥ 3mm | | | 24 | 24J -10 KV 20J -20 KV -40 - -50 - |

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