

Carbon and low alloy steel EN10025 St37-3N steel plate

St37-3N steel plate, under DIN17100 standard St37-3N steel plate, under DIN17100 standard, we can regard St37-3N steel plate as Carbon and low alloy steel

St37-3N steel plate is one mainly of Carbon and low alloy steel, St37-3N steel plate is called carbon structural steel, its carbon contents is less than 0.38%, but the less than 0.25% carbon content is most common used, so it is also called low carbon steel. Every metal number plate means its minimum yield point when its thickness is less than 16mm. However compared with the high quality carbon steel, this material steel plate is not strict with its carbon contents, performance range, phosphorus, sulfur and other residual element content.

| ST37-3N DIN17100 | Comparison of steel grades | |
|---------------------|----------------------------|------------|
| | EN10025:1990 | FE E 360 C |
| | EN 10025-2 | S235J0 |
| | NFA 35-501 | E24-3 |
| | BS1449 | 40C |
| | JIS3106 | SM400B |
| | UNI7070 | FE 360 C |

Chemical analysis -% by mass*

| Chemical elements | C≤ 16mm max | C>16mm max | Si max | Mn max | P max. | S max. |
|-------------------|----------------|---------------|-----------|-----------|-----------|-----------|
| %,by mass | 0.17 | 0.17 | -- | 1.40 | 0.045 | 0.045 |

Mechanical properties

| thickness | Yield Strength ReH [N/mm ²] transv. min. | Tensile Strength Rm [N/mm ²] transv. | Fracture Elongation [%] transv. min. | Notch Impact Energy 1) Ch V complete sample longitud. min [J] |
|----------------------|---|---|---|---|
| t ≤ 16mm t > 16mm | 235 225 | | | Degree: 0 AV: 27J |
| t < 3mm t ≥ 3mm | | 360-510 340-470 | | |
| Up to 1.5mm | | | 16 | |
| 1.51-2.00mm | | | 17 | |
| 2.01-2.50mm | | | 18 | |
| 2.51-2.99mm ≥ 3mm | | | 19 24 | |

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