

This is common carbon **steel plate in S235JR, S235J0 and S235J2 steel grade**. Heat analysis shall be used to determine the required chemical composition for carbon. Manganese, phosphorus, sulfur, silicon, and copper. Tensile strength, yield strength, and elongation shall be evaluated using tension test.

S symbol for structural steel

275 indication of the min specified yield strength for thickness of under 16mm.

JR symbol 20 temperature impact test.

J0 symbol 0 temperature impact test

J2 symbol -20 temperature impact test

S275JR, S275J0 and S275j2 steel is a structural steel grade which be used in riveted, bolted, or welded construction of bridges and buildings.

For more information of S275j0 steel, please refer them in followin

Comparison of steel grades

| S275J0 | EN10025:1990 | FE 430 C |
|-----------------------|--------------|----------|
| DIN EN 10025-2Number: | DIN17100 | ST44-3U |
| 1.0143 | NFA 35-501 | E28-3 |
| | BS1449 | 43C |
| | UNI7070 | FE 430 C |

S275J0 steel plate Chemical analysis -% by mass*

| Chemical elements | C≤ 16mm | C>16mm | Si | Mn | P | S |
|-------------------|---------|--------|-----|------|-------|-------|
| | max | max | max | max | max. | max. |
| %,by mass | 0.18 | 0.18 | -- | 1.50 | 0.040 | 0.040 |

S275J0 steel sheet Mechanical properties

| thickness | Yield StrengthReH[N/mm2] | TensileStrengthRm[N/mm2]transv. | Fracture Elongation[%]transv. min. | Notch Impact Energy1)Ch Vcomplete samplelongitud. min [J] |
|-------------|--------------------------|---------------------------------|------------------------------------|---|
| t≤ 16mm | 275 | | | |
| t >16mm | 265 | | | |
| t < 3mm | | 430-580 | | |
| t ≥ 3mm | | 410-560 | | |
| Up to 1.5mm | | | 13 | 0 degree |
| 1.51-2.00m | | | 14 | |
| m | | | 15 | 27J |
| 2.01-2.50m | | | 16 | |
| m | | | 20 | |
| 2.51-2.99m | | | | |
| m | | | | |

BEBON international — We are specialized in hot rolled steel plate/coil.

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≥ 3mm

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