

**UNI 7846 C35 steel plate high carbon steel**

C35 steel plate,UNI 7846 C35 steel plate, under UNI 7846 standard, we can regard C35 steel plate as high carbon steel.

C35 steel plate is one mainly of high carbon steel,the application of UNI 7846 C35 steel plate is equal to JIS G4051 S35C,EN 10083C35,DIN 17200 C35,NFA 33-101 ,UNE36011 C35K and AISI 1035.

| C35<br>UNI 7846<br>Number:1.0501 | Comparison of steel grades |           |
|----------------------------------|----------------------------|-----------|
|                                  | JIS G 4051                 | S 35 C    |
|                                  | DIN 17200                  | C 35      |
|                                  | NFA 33-101                 | AF55-C 35 |
|                                  | UNI 7846                   | C 35      |
|                                  | BS 970                     | 070 M 36  |
|                                  | UNE 36011                  | C 35 k    |
|                                  | SAE J 403-AISI             | 1035      |

**Chemical Composition of C35 steel**

| Grade | C(%)min-max | Si(%)min-max | Mn(%)min-max | P(%)max | S(%)max | Cr(%)min-max |
|-------|-------------|--------------|--------------|---------|---------|--------------|
| C35   | 0.32-0.39   | 0.15-0.35    | 0.50-0.80    | 0.025   | 0.025   | 0.20-0.40    |

**Mechanical Properties of C35 steel**

| Grade | Condition  | Yield Strength<br>R <sup>o</sup><br>(Mpa) | Tensile Strength<br>R <sub>m</sub><br>(Mpa) | Elongation<br>A5(%) | Hardness<br>HRC | Quenching<br>Temperature<br>(°C) | Bendability                                    | Nominal Thickness,t<br>1.95mm≤t≤10.0mm |          |
|-------|--|---|---|---------------------|-----------------|----------------------------------|--|--|----------|
|       |  |   |   |                     |                 |                                  |  | Rolled                                 | Annealed |
| C35   | Rolled<br>Annealed<br>Water-quenched<br>Oil quenched | 440                                       | 700   | 18                  | 53              | 840                              | Min.recommended<br>Bending<br>radius<br>(≤90°) | 2.0<br>×t                              | 1.0×t    |
|       |  | 310                                       | 480<br>1845<br>1690                         | 30                  | 50              | 880                              |  |  |          |

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