

**Steel Resistant to Atmospherical Corrosion EN 10155 S 355 J2G 1W steel plate**

S 355 J2G 1W steel plate, EN 10155 S 355 J2G 1W steel plate, under EN 10155 standard, we can regard S 355 J2G 1W steel plate as Steel Resistant to Atmospherical Corrosion  
 S 355 J2G 1W steel plate is one mainly of Steel Resistant to Atmospherical Corrosion, S355J2G1W steel plate is a weather-resistant structural steel with mechanical properties similar to S355J2G2. By adding Cr, Cu and Ni, it formed oxide layers stick firmly to the workpiece surface. This oxide layer prevents further corrosion of the steel

|  |                            |             |
|--|----------------------------|-------------|
| S355J2G1W<br>EN<br>10155 MATERIAL#1.8963 | Comparison of steel grades |             |
|  | SEW 087                    | WTSt52-3    |
|  | DIN17102                   | STE355      |
|  | NFA 35-502                 | -           |
|  | BS4306                     | WR50C       |
|  | UNI                        | Fe 510 D2K1 |

**Chemical analysis -% by mass\***

| Grades    | C<br>max | Si<br>max | Mn        | P<br>max | S<br>max. | Cu<br>max | Cr<br>max | Ni<br>max | V<br>max  | Nb<br>max   | Al<br>min |
|-----------|----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|
| S235J2G1W | 0.16     | 0.50      | 0.50-1.50 | 0.035    | 0.035     | 0.25-0.55 | 0.40-0.80 | 0.65      | 0.02-0.12 | 0.015-0.060 | 0.02      |

**Mechanical properties**

| Thickness | Yield Strength<br>ReH[N/mm2]<br>transv.min | Tensile Strength<br>Rm[N/mm2]transv | Fracture<br>Elongation[%]<br>transv. min. | Notch Impact<br>Energy1)Ch Vcomplete<br>samplelongitud. min [J] |
|-----------|--|-------------------------------------|---|---|
| -         | 355  | 510-610                             | 22  | -   |

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