

Steel Resistant to Atmospherical Corrosion UNI FE 510 D2K1

FE 510 D2K1 steel plate, **UNI** FE 510 D2K1 steel plate, under **UNI** standard, we can regard FE 510 D2K1 steel plate as Steel Resistant to Atmospherical Corrosion FE 510 D2K1 steel plate is one mainly of Steel Resistant to Atmospherical Corrosion, FE 510 D2K1 steel plate is a weather-resistant structural steel with mechanical properties similar to FE 510 D2K1. By adding Cr, Cu and Ni, it formed oxide layers stick firmly to the work piece surface. This oxide layer prevents further corrosion of the steel.

| FE 510 D2K1 UNI | Comparison of steel grades | |
|--------------------|----------------------------|-------------|
| | UNI | S355J2G1W |
| | DIN17102 | STE355 |
| | NFA 35-502 | - |
| | BS4306 | WR50C |
| | UNI | Fe 510 D2K1 |

FE 510 D2K1 steel plate Chemical analysis -% by mass*

| Grades | C max | Si max | Mn | P max | S max. | Cu max | Cr max | Ni max | V max | Nb max | Al min |
|-------------|----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|
| FE 510 D2K1 | 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 |

FE 510 D2K1 steel sheet Mechanical properties

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

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