

UNI 7070 FE 690 steel plate/sheet for general Construction steels

UNI 7070 FE 690 steel plate/sheet, UNI 7070 FE 690 steel plate/sheet, under EN standard, we can regard FE 690 steel plate/sheet for general Construction steels. UNI 7070 FE 690 steel plate/sheet is for general Construction steels. The followings are the chemical composition and the mechanical properties of EN FE 690 steel. FE 690 steel is according to UNI 7070 standard and it is equivalent to EN: Fe690-2, DIN17100:St70-2, NFA: A70-2 and UNI 7070:E360 steel grades.

| | | |
|--------------------|----------------------------|--------|
| FE 690 UNI 7070 | Comparison of steel grades | |
| | UNI 7070:1990 | FE 690 |
| | DIN17100 | ST70-2 |
| | NFA 35-501 | A70-2 |
| | BS1449 | - |
| | UNI7070 | FE 690 |

Chemical analysis -% by mass of FE 690 steel

| Chemical elements | C _≤ 16mm max | C>16mm max | Si max | Mn max | P max. | S max. | N max |
|-------------------|-------------------------|------------|--------|--------|--------|--------|-------|
| FE 690 | - | - | - | - | 0.045 | 0.045 | 0.012 |

Mechanical properties of FE 690 steel

| 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 | 360 | | | |
| t > 16mm | 355 | | | |
| t < 3mm | | 690-900 | | |
| t ≥ 3mm | | 670-830 | | |
| Up to 1.5mm | | | 4 | - |
| 1.51-2.00mm | | | 5 | - |
| 2.01-2.50mm | | | 6 | |
| 2.51-2.99mm | | | 7 | |
| ≥ 3mm | | | 10 | |

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