

ISO 1052 FE E 590 steel plate/sheet for general Construction steels

Key words :

ISO 1052 FE E 590 steel plate/sheet, ISO 1052 FE E 590 steel plate/sheet, under ISO 1052 standard, we can regard FE E 590 steel plate/sheet for general Construction steels. ISO 1052 FE E 590 steel plate/sheet is for general Construction steels. The followings are the chemical composition and the mechanical properties of ISO 1052 FE E 590 steel. FE E 590 steel is according to ISO 1052 standard and it is equivalent to DIN17100:St60-2, NFA:A60-2 and UNI7070:Fe590 steel grades.

Equivalent grade :

ISO 1052 FE E 590 steel plate/sheet is in ISO 1052 standard. The comparison of steel grades is: ISO 1052:1990 FE E 590, DIN17100 ST60-2, NFA 35-501 A60-2, BS1449, UNI7070 FE 590.

| FE E 590 ISO 1052 | Comparison of steel grades | |
|----------------------|----------------------------|----------|
| | ISO 1052:1990 | FE 590-2 |
| | DIN17100 | ST60-2 |
| | NFA 35-501 | A60-2 |
| | BS1449 | - |
| | UNI7070 | FE 590 |

FE E 590 steel Chemical analysis -% by mass*

Main chemical composition in MNC 850 E SIS 16,50,00 steel : Phosphorus max 0.045, Silicon max 0.045, please refer to the flowing table:

| Chemical elements | C≤ 16mm max | C>16mm max | Si max | Mn max | P max. | S max. | N max |
|-------------------|----------------|---------------|-----------|-----------|-----------|-----------|----------|
| FE E 590 | - | - | - | - | 0.045 | 0.045 | 0.012 |

FE E 590 steel Mechanical properties

ISO 1052 FE E 590 is general Construction steels, The different thickness with different yield strength, tensile strength and fracture elongation. More detailed information about ISO 1052 FE E 590 steel Mechanical Properties , please refer to the following table:

| 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 Vcomplete samplelongitud. min [J] |
|----------------------|---|---|---------------------------------------|--|
| t ≤ 16mm t > 16mm | 335 325 | | | - |
| t < 3mm t ≥ 3mm | | 590-770 570-710 | | |
| Up to 1.5mm | | | 7 | |
| 1.51-2.00mm | | | 8 | |
| 2.01-2.50mm | | | 9 | |
| 2.51-2.99mm | | | 10 | |
| ≥ 3mm | | | 14 | |

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Tel:0086-10-56218820

E-mail: steel@ice-steels.com

Fax: 0086-10-56218821

Web:http://www.ice-steels.com

Oficina Dir: ROOM 3007 1# SOHO MODERN CITY, 88 NO. JIAN GUO ROAD BEI JING OF CHINA



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