

EN10025 E 335 steel plate/sheet for general Construction steels

Key words :

[EN10025 E 335 steel plate/sheet](#), EN10025 E 335 steel plate/sheet, under EN standard, we can regard E 335 steel plate/sheet for general Construction steels. EN10025 E 335 steel plate/sheet is for general Construction steels. The followings are the chemical composition and the mechanical properties of EN E 335 steel. E 335 steel is according to EN10025 standard and it is equivalent to EN:Fe690-2, DIN17100:St70-2, NFA: A70-2 and UNI7070:Fe690 steel grades.

Equivalent grade :

EN10025 E 335 steel plate/sheet is in EN10025 standard. The comparison of steel grades is: EN10025:1990 E 335, DIN17100 ST60-2, NFA 35-501 A60-2, BS1449, UNI7070 FE 590.

| E 335 EN 10025(93) Number: 1.0060 | Comparison of steel grades | |
|--------------------------------------|----------------------------|--------------|
| | EN 10025(90) | Fe 590-2 |
| | NBNA21201 | A 590-1,2 |
| | DIN 17100 | St 60-2 |
| | NFA 35501 | A 60-2 - |
| | MNC 850 E | SIS 16,50,00 |
| | ISO 1052 | Fe E 590 |
| | UNI 7070 | Fe 590 |
| | JISG | |

E 335 steel Chemical analysis

Main chemical composition in EN10025 E 335 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 |
|-------------------|-------------|------------|--------|--------|--------|--------|-------|
| E335 | - | - | - | - | 0.045 | 0.045 | 0.012 |

E 335 steel Mechanical properties

EN10025 E 335 is general Construction steels, The different thickness with different yield strength, tensile strength and fracture elongation. More detailed information about EN10025 E 335 steel Mechanical Properties , please refer to the following table:

Mechanical properties

| thickness | Yield Strength R_{eH} [N/mm ²] transv. min. | Tensile Strength R_m [N/mm ²] transv. | Fracture Elongation[%] transv. min. | Notch Impact Energy $1)Ch V$ complete sample longitud. min [J] |
|-----------|---|---|-------------------------------------|--|
| t ≤ 16mm | 335 | | | |
| t > 16mm | 325 | | | |
| t < 3mm | | 590-770 | | - |
| t ≥ 3mm | | 570-710 | | - |

Up to 1.5mm

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| | |
|-------------|----|
| 1.51-2.00mm | 8 |
| 2.01-2.50mm | 9 |
| 2.51-2.99mm | 10 |
| ≥ 3mm | 14 |

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