

SEW083 StE460TM steel plate/sheet for Fine-grain structural steels, thermomechanically rolled steels

SEW083 StE460TM steel plate/sheet, SEW083 StE460TM steel plate/sheet, under DIN standard, we can regard StE460TM steel plate/sheet for Fine-grain structural steels, thermomechanically rolled steel.

SEW083 StE460TM is a technical delivery conditions for thermomechanical rolled weldable fine grain structural steels. S means the structural steel, M means the delivery condition. Capital letter L for the quality with specified minimum values of values of impact energy at temperature not lower than -20 degree.

| | | |
|-------------------------------------|-----------------------------|---------------|
| StE460TM SEW083 Number:1.8827 | Comparision of steel grades | |
| | EN10113-3 | S460M |
| | NFA 36-201 | E 460 R |
| | UNI 7382 | Fe E 460 KGTM |
| | BS 4360 | - |
| | ASTM | A 572 Gr.65 |

Chemical Composition of StE460TM steel

| Grade | C max | Si max | Mn max | P max | S max | N max | AL max | Nb max | V max | Ti max | Cr max | Ni max | Mo max | Cu max | CE V max |
|----------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| StE460TM | 0.16 % | 0.60 % | 1.70 % | 0.03 % | 0.02 5% | 0.02 5% | 0.02 % | 0.05 % | 0.12 % | 0.05 % | 0.30 % | 0.80 % | 0.20 % | 0.55 % | 0.48 % |

Mechanical Properties of StE460TM steel

| | | | |
|---|-----|----|----|
| Temperature | -10 | 0 | 20 |
| Notch impact test. Min. absorbed energy | 43 | 47 | 55 |

| | | | | | | |
|---------------------------------|-------|-------|-------|-------|--------|---------|
| Nominal thickness(mm) | to 16 | 16-40 | 40-63 | 63-80 | 80-100 | 100-120 |
| ReH-Minimum yield strength(Mpa) | 460 | 440 | 430 | 410 | 400 | 385 |

| | | | | | |
|---------------------------------------|---------|---------|---------|---------|---------|
| Nominal thickness(mm) | to 40 | 40-63 | 63-80 | 80-100 | 100-120 |
| Rm-Tensile strength(Mpa) | 540-720 | 530-710 | 510-690 | 500-680 | 490-660 |
| Nominal thickness(mm) | - | | | | |
| A-Minimum elongation Lo=5.65√So(%) | 17 | | | | |

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