



EN10113 S420M steel plate/sheet for Fine-grain structural steels, thermomechanically rolled steels

EN10113 S420M steel plate/sheet, EN10113 S460M steel plate/sheet, under EN standard, we can regard S420M steel plate/sheet for Fine-grain structural steels, thermomechanically rolled steel.

EN10113 S420M 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. The EN10113 S420M steel is equivalent to SEW TStE420TM, NFA E420R and ASTM A572Gr60 steel grade.

| S420M EN 10113-3 Number:1.8825 | Comparision of steel grades | |
|--------------------------------------|-----------------------------|-------------|
| | SEW 083 | TStE 420 TM |
| | NFA 36-201 | E 420 R |
| | UNI 7382 | - |
| | BS 4360 | - |
| | ASTM | A 572 Gr.60 |

Chemical Composition of EN S420M 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 |
|-----------|-----------|-----------|-----------|-----------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|
| S420 M | 0.16 % | 0.50 % | 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 % | 0.47 % |

Mechanical Properties of EN S420M 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-Minimun yield strength(Mpa) | 420 | 400 | 390 | 380 | 370 | 365 |

| | | | | | |
|-----------------------|-------|-------|-------|--------|---------|
| Nominal thickness(mm) | to 40 | 40-63 | 63-80 | 80-100 | 100-120 |
|-----------------------|-------|-------|-------|--------|---------|

Bebon steel — The most professional exporter on shipbuilding steel

Tel:0086-371-86151527

E-mail:bb@bebonchina.com

Fax: 0086-371-86011881

MSN:bebonchina@hotmail.com

Skype: bebonchina

Web:http://www.shipbuilding-steel.com

Oficina Dir: 2801 B# International enterprise center Zhengzhou city in China.



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Henan BEBON international co.,ltd

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|---------------------------------------|---------|---------|---------|---------|---------|
| Rm-Tensile strength(Mpa) | 520-680 | 500-660 | 480-640 | 470-630 | 460-620 |
| Nominal thickness(mm) | - | | | | |
| A-Minimum elongation Lo=5,65√So(%) | 19 | | | | |

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