



DIN17102 WStE255 steel plate/sheet for boilers and Pressure Vessels steels

DIN17102 WStE255 steel plate/sheet, DIN17102 WStE255 steel plate/sheet, under DIN standard, we can regard WStE255 steel plate/sheet for boilers and Pressure Vessels steels. DIN17102 WStE255 steel plate/sheet is for boilers and Pressure Vessels steels, it is a normalized steel plate and sheet which is mainly used for building pressure vessels and boilers and pipes for hot liquid. The followings are the chemical composition and the mechanical properties of DIN17102 WStE255 steel.

This standard DIN 17102 StE255/WStE255/TStE255/ESStE255 applies to hot rolled products in the form of flats (plate, strip, wide, flats), sections and bars of weldable fine grain structural steels exhibiting. Its minimum yield strength of 225 to 255 N/mm referred to the lowest thickness.

Chemical composition of DIN WStE255 steel

| Steel grade | | Percentage by mass | | | | |
|-------------|----------|--------------------|------|-------|-------|-------|
| symbol | material | C≤ | Si≤ | Mn | P≤ | S≤ |
| StE255 | 1.0461 | 0.18 | 0.40 | 0.50- | 0.035 | 0.030 |
| WStE255 | 1.0462 | 0.18 | | 1.30 | 0.035 | 0.030 |
| TStE255 | 1.0463 | 0.16 | | 0.030 | 0.025 | |
| ESStE255 | 1.1103 | 0.16 | | 0.025 | 0.015 | |

Mechanical properties of DIN WStE255 steel

| Grade | | | | Minimum upper yield stress, For thickness of mm | | | | | Tensile strength | Minimum elongation after fracture | |
|-------|------|------|-------|--|-------|-------|-------|-------|-------------------|-----------------------------------|------------|
| | | | | Up to 12 | 12-20 | 20-40 | 40-50 | 50-65 | | parallel | Transverse |
| StE | WStE | TstE | ESStE | N/mm ² | | | | | N/mm ² | % | |
| 255 | 255 | 255 | 255 | 255 | 255 | 245 | 235 | 225 | 360-480 | 25 | 23 |

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Tel:0086-371-86151527

Fax:0086-371-86011881

Skype:bebonchina

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

E-mail:bb@bebonchina.com

MSN:bebonchina@hotmail.com

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