

DIN17102 T ST E 355 steel plate/sheet for boilers and Pressure Vessels steels

DIN17102 T ST E 355 steel plate/sheet, DIN17102 T ST E 355 steel plate/sheet, under EN standard, we can regard T ST E 355 steel plate/sheet for boilers and Pressure Vessels steels. DIN17102 T ST E 355 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.

If you are looking for Chinese T ST E 355 steel supplier, if you want to know T ST E 355 steel price, please be free to contact us.

The chemical composition of T ST E 355 steel

| Element | Max % | Element | max % |
|---------|-----------|---------|-------|
| C | 0.18 | Cu | 0.30 |
| Si | 0.50 | Mo | 0.08 |
| Mn | 0.90-1.70 | N | 0.02 |
| P | 0.03 | Nb | 0.05 |
| S | 0.03 | Ni | 0.50 |
| AL | - | Ti | 0.03 |
| Cr | 0.30 | V | 0.10 |
| Nb+Ti+V | 0.12 | | |

The mechanical properties of T ST E 355 steel

| Grade | Material | Thickness | Yield Strength | Tensile Strength | Elongation |
|------------|----------|----------------|----------------|------------------|------------|
| | | (mm) | MPa (min) | MPa | % (min) |
| T ST E 355 | 1.0566 | ≤ 16 | 355 | | |
| | | 16 > to ≤ 35 | 355 | | |
| | | 35 > to ≤ 50 | 345 | | |
| | | 50 > to ≤ 70 | 325 | 490-630 | 22 |
| | | 70 > to ≤ 100 | 315 | 470-610 | 21 |
| | | 100 > to ≤ 150 | 295 | 450-590 | 21 |
| | | > 150 | 1) | 1) | 1) |

The impact test of T ST E 355 steel

| Type | Usual Delivery Condition | Normal Thickness (mm) | Impact Energy KV min[J] at temperature [°C] | | | | | | | | | |
|------------|--------------------------|-----------------------|---------------------------------------------|-----|-----|----|-----|--------------|-----|-----|----|-----|
| | | | Longitudinal | | | | | Longitudinal | | | | |
| | | | -50 | -40 | -20 | 0 | +20 | -50 | -40 | -20 | 0 | +20 |
| T ST E 355 | N | 5-150 | 27 | 34 | 47 | 55 | 63 | 16 | 20 | 27 | 34 | 40 |

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