

Steel plate for for Boiler Pressure Vessel DIN17135 A St 35 steel

A St 35 steel plate, DIN17135 A St 35 steel plates is a kind of material for boiler and pressure vessel steel. DIN17135A St 35 steel plates is characterized by a minimum yield strength of 170-230MPa and by good weldability, so A St 35 steel is mainly used to for manufacturing boilers, pressure vessels and pipes transporting hot liquids. the following are DIN17135 A St 35 steel plate's Chemical composition and mechanical properties

If you are looking for Chinese A St 35 steel supplier, if you want to know A St 35 steel price, please be free to contact us.

A St 35 steel plate Chemical analysis -% by mass*

| Grades | C max | Si max | Mn. max | P max | S max | N max | AL min | Cr max | Cu max | Mo max | Ni max | Nb max | Ti max | V max |
|---------|-------|--------|-----------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|-------|
| A St 35 | 0.16 | 0.35 | 0.60-1.20 | 0.025 | 0.015 | 0.012 | 0.02 | 0.3 | 0.03 | 0.08 | 0.3 | 0.02 | 0.03 | 0.02 |

A St 35 steel plate Mechanical properties

| Grade | Thickness (mm) | Yield Strength MPa(min) | Tensile Strength MPa | Elongation % (min) | Impact Energy (KV J) (min) | | |
|---------|----------------|-------------------------|----------------------|--------------------|----------------------------|-----|------|
| | | | | | -20°C | 0°C | 20°C |
| A St 35 | ≤ 16 | 235 | 360 to 480 | 24 | 27 | 34 | 40 |
| | 16<t ≤40 | 225 | 360 to 480 | 24 | 27 | 34 | 40 |
| | 40<t ≤60 | 215 | 360 to 480 | 24 | 27 | 34 | 40 |
| | 6<t ≤100 | 200 | 360 to 480 | 24 | 27 | 34 | 40 |
| | 100<t ≤150 | 185 | 350 to 480 | 24 | 27 | 34 | 40 |
| | 150<t ≤250 | 170 | 350 to 480 | 24 | 27 | 34 | 40 |

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