

Steel Grade: AISI — | ASTM 26 – 3 – 3 | UNS S44660 | Type: Ferrite

CHEMICAL COMPOSITION

| C(%) | Si(%) | Mn(%) | P(%) ≤ | S(%) ≤ | Cr(%) | Ni(%) | Mo(%) | Other(%) |
|--------|-------|-------|--------|--------|-----------|-----------|-----------|---------------------------------|
| ≤0.030 | ≤1.00 | ≤1.00 | 0.04 | 0.03 | 25.0~28.0 | 1.00~3.50 | 3.00~4.00 | (b)0.20~1.00 ≥ 6 × (C+N), N ≤ 0 |

MECHANICAL PROPERTIES AND HARDNESS

| Variety② | Condition③ | Tensile Strength σ_b /MPa | Yield Strength $\sigma_{0.2}$ /MPa | Extensibility δ (%) | Reduction of Area ψ (%) | Hardness HRB | Standard ASTM |
|----------|------------|------------------------------------|--------------------------------------|------------------------------|--------------------------------|--------------|---------------|
| P,Sh,St | A | 585 | 450 | 18 | — | A176,A240 | A176,A240 |
| - | - | - | - | - | - | - | - |

Remark:

- ②, B—Bar; F—forging; P—Thick plate; Sh—Sheet; St—Strip; Pi,T—Pipe steel; S-Pi,T—Seamless Pipe steel; W-T—Welded Pipe; Sp—Shape; W—wire.
- ③, A—Annealing; HF—Hot Forging; CF—Cold Drawing.
- ④, The thickness or diameter is more than 13mm.
- ⑤, The thickness or diameter is more than 13mm.
- ⑥, The diameter is more than 4mm.
- ⑦, When the diameter of wire is under 3.96mm, the δ is 25%, and ψ is 40%.
- ⑧, The cross section of forging is above 127mm, then the σ_b is 485Pa.

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