

Steel Grade: AISI 446 | ASTM 446 | UNS S44600 | Type: Ferrite

CHEMICAL COMPOSITION

| C(%) | Si(%) | Mn(%) | P(%) ≤ | S(%) ≤ | Cr(%) | Ni(%) | Mo(%) | Other(%) |
|-------|-------|-------|--------|--------|-----------|-------|-------|----------|
| ≤0.20 | 1 | 1.5 | 0.04 | 0.03 | 23.0~27.0 | ≤0.50 | — | N≤0.25 |

MECHANICAL PROPERTIES AND HARDNESS

| Variety ^② | Condition ^③ | Tensile Strength σ_b /MPa | Yield Strength $\sigma_{0.2}$ /MPa | Extensibility δ (%) | Reduction of Area ψ (%) | Hardness HRB | Standard ASTM |
|----------------------|------------------------|------------------------------------|--------------------------------------|------------------------------|--------------------------------|--------------|---------------|
| B | A,C | 480 | 275 | 16 | 45 | A276 | A276 |
| - | A,H | 480 | 275 | 20 | 45 | A276 | A276 |

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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