

Steel Grade: AISI 444 | ASTM 18-2 | UNS S44400 | Type: Ferrite

CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤	Cr(%)	Ni(%)	Mo(%)	Other(%)
≤0.025	≤1.00	≤1.00	0.04	0.03	17.5~19.5	≤1.00	1.75~2.50	0.035, 0.2+4(C+N) ≤ (Ti+Nb) ≤ 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	415	275	20	—	A176	A176
-	-	-	-	-	-	-	-

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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