

Steel Grade: AISI 442 | ASTM 442 | UNS S44200 | Type: Ferrite

CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤	Cr(%)	Ni(%)	Mo(%)	Other(%)
≤0.020	≤1.00	≤1.00	0.04	0.035	18.0~23.0	—	—	—

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
B	A	550	310	20	40	—	—
P,Sh,St	A	515	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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