

Steel Grade: AISI — | ASTM 29 – 4 – 2 | UNS S44800 | Type: Ferrite

CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤	Cr(%)	Ni(%)	Mo(%)	Other(%)
≤0.010	≤0.20	≤0.30	0.025	0.02	28.0~30.0	2.0~2.5	3.50~4.20	Cu≤0.15,N≤0.020,C+N≤0.02

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	480	380	20	40	A479	A479
-	CF	520	415	15	30	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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