

Steel Grade: AISI 310SCb | ASTM 310Cb | UNS S31040 | Type: Austenitic

CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤	Cr(%)	Ni(%)	Mo(%)	Other(%)
≤0.08	≤1.50	≤2.00	0.045	0.03	24.0~26.0	19.0~22.0	—	10×C% ≤ (Nb+Ta) ≤ 1.10, N0.1

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,Sp	CF+A	515	205	30	40	—	A276
B,Sp	CF+A	620	310	30	40	—	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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