

Steel Grade: AISI 201 | ASTM 201 | UNS S20100 | Type: Austenitic

CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤	Cr(%)	Ni(%)	Mo(%)	Other(%)
≤0.15	≤1.00	5.05~7.50	0.06	0.03	16.0~18.0	3.50~5.50	—	N≤0.25

HARDNESS AND HEAT TREATMENT

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	515	275	40	45	—	A276
P,Sh,St	A	655	310	40	—	≤100	A276,A666

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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