

Steel Grade: AISI 317L | ASTM — | UNS S31703 | Type: Austenitic

CHEMICAL COMPOSITION

| C(%) | Si(%) | Mn(%) | P(%) ≤ | S(%) ≤ | Cr(%) | Ni(%) | Mo(%) | Other(%) |
|-------|-------|-------|--------|--------|-----------|-----------|-----------|----------|
| ≤0.03 | ≤1.00 | ≤2.00 | 0.045 | 0.03 | 18.0~20.0 | 11.0~15.0 | 3.00~4.00 | N≤0.10 |

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 | 585 | 240 | 55 | 65 | ≤85 | — |
| P,Sh,St | A | 515 | 205 | 40 | — | ≤95 | A167 |

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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