

Steel Grade: AISI 302B | ASTM 302B | UNS S30215 | Type: Austenitic

**CHEMICAL COMPOSITION**

| C(%)  | Si(%)     | Mn(%) | P(%) ≤ | S(%) ≤ | Cr(%)     | Ni(%)     | Mo(%) | Other(%) |
|-------|-----------|-------|--------|--------|-----------|-----------|-------|----------|
| ≤0.15 | 2.00~3.00 | ≤2.00 | 0.045  | 0.03   | 17.0~19.0 | 8.00~10.0 | —     | —        |

**MECHANICAL PROPERTIES AND HARDNESS**

| Variety <sup>②</sup> | Condition <sup>③</sup> | Tensile Strength   $\sigma_b$ /MPa | Yield Strength   $\sigma_{0.2}$ /MPa | Extensibility   $\delta$ (%) | Reduction of Area   $\psi$ (%) | Hardness HRB | Standard ASTM |
|----------------------|------------------------|------------------------------------|--------------------------------------|------------------------------|--------------------------------|--------------|---------------|
| B, F                 | HF+A                   | 515                                | 205                                  | 40                           | 50                             | —            | A276,A473     |
| B <sup>④</sup>       | 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  $\delta$  is 25%, and  $\psi$  is 40%.

⑧, The cross section of forging is above 127mm, then the  $\sigma_b$  is 485Pa.

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