

Steel Grade: AISI — | ASTM XM-21 | UNS S30452 | Type: Austenitic

**CHEMICAL COMPOSITION**

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤	Cr(%)	Ni(%)	Mo(%)	Other(%)
≤0.08	≤1.00	≤2.00	0.045	0.03	18.0~20.0	8.00~10.5	—	N0.16~0.30

**HARDNESS AND HEAT TREATMENT**

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	A	620	345	30	50	—	A276
P	A	585	275	30	—	A240	A240

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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