

Steel Grade: AISI 430 | ASTM 430 | UNS S43000 | Type: Ferrite

**CHEMICAL COMPOSITION**

| C(%)  | Si(%) | Mn(%) | P(%) ≤ | S(%) ≤ | Cr(%)     | Ni(%) | Mo(%) | Other(%) |
|-------|-------|-------|--------|--------|-----------|-------|-------|----------|
| ≤0.12 | ≤1.00 | ≤1.00 | 0.04   | 0.03   | 16.0~18.0 | —     | ≤0.75 | —        |

**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                    | A                      | 415                                | 205                                  | 20                           | 45                             | A276         | A276          |
| P,Sh,St              | A                      | 450                                | 205                                  | 22 <sup>④</sup>              | —                              | A176,A240    | A176,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.

From: Jiangyou Hacer Technology Co., Limited  
 Factory Add: Jiangzhang Road, Jiangyou City, SC, China  
 Website: <https://www.jhacer.com/>  
 Email: [sales@jhacer.com](mailto:sales@jhacer.com)  
 Phone: +86-(0)816-3260757  
 Call: +86-13658128897(WhatsApp)