## Manufacturer of ASTM A106 Seamless Carbon Steel Pipes Pipes

Professional Manufacturer and Supplier from China specialized in Seamless Carbon Steel Pipes Pipes and Tubes at Consistant Quality

Name : Seamless carbon steel tube for high temperature service Description:

1.standards: ASTM A106 (ASME SA106)
2.products mainly used: apply to bending, curling and similar forming process.
3.the main products of steel / steel grade: Gr.A; Gr.B; Gr.C.
4.Specifications: diameter: 10.3 to 114.3 mm thickness: 0.8 to 12 mm Length: 6 m above, and, in accordance with customer demand, supply and other specifications of steel pipe.
5.chemical composition and mechanical properties:

Features Specifications:

| OD(mm) | Wall Thickness Unit(mm) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | 6 | 6. 5-7 | 7. 5-8 | 8. 5-9 | 9. 5-10 | 11 | 12 |
| Ф25-Ф28 | - | $\bullet$ | $\bullet$ | $\bullet$ | - | - |  |  |  |  |  |  |  |  |
| Ф32 |  | $\bullet$ | - | $\bullet$ | - | $\bullet$ | - |  |  |  |  |  |  |  |
| Ф34-Ф36 |  | - | $\bullet$ | - | - | $\bullet$ | - |  |  |  |  |  |  |  |
| Ф38 |  | - | - | - | - | - | - |  |  |  |  |  |  |  |
| Ф40 |  |  | $\bullet$ | $\bullet$ | - | $\bullet$ | - |  |  |  |  |  |  |  |
| Ф42 |  |  | $\bullet$ | $\bullet$ | - | $\bullet$ | $\bullet$ |  |  |  |  |  |  |  |
| Ф45 |  |  | $\bullet$ | - | - | $\bullet$ | $\bullet$ | $\bullet$ |  |  |  |  |  |  |
| Ф48-Ф60 |  |  | - | $\bullet$ | - | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |  |  |  |  |  |
| Ф63.5 |  |  |  | $\bullet$ | - | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |  |  |  |  |
| Ф68-Ф73 |  |  |  |  | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |  |  |  |  |
| Ф76 |  |  |  |  | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | - | - | - |
| Ф80 |  |  |  |  | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | - | $\bullet$ | $\bullet$ | - |
| Ф83 |  |  |  |  | - | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | - | $\bullet$ | $\bullet$ | - |
| Ф89 |  |  |  |  | $\bullet$ | $\bullet$ | - | $\bullet$ | - | $\bullet$ | - | $\bullet$ | - | - |
| Ф95 |  |  |  |  | - | $\bullet$ | $\bullet$ | $\bullet$ | - | $\bullet$ | - | - | - | $\bullet$ |
| Ф102 |  |  |  |  | - | - | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | - | $\bullet$ |
| Ф108 |  |  |  |  | $\bullet$ | $\bullet$ | $\bullet$ | - | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | - | $\bullet$ |
| Ф114 |  |  |  |  |  | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | - | - | $\bullet$ |
| Ф121 |  |  |  |  |  | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | - | $\bullet$ |
| Ф127 |  |  |  |  |  | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | - |
| Ф133 |  |  |  |  |  | $\bullet$ | - | $\bullet$ | $\bullet$ | - | - | $\bullet$ | - | - |
| Ф140 |  |  |  |  |  |  | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| Ф146 |  |  |  |  |  |  | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | - |
| Ф152 |  |  |  |  |  |  | $\bullet$ | $\bullet$ | $\bullet$ | - | - | - | - | - |
| Ф159 |  |  |  |  |  |  | $\bullet$ | $\bullet$ | - | $\bullet$ | - | - | - | - |
| Ф168 |  |  |  |  |  |  | $\bullet$ | - | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | - | $\bullet$ |


| OD(mm) | Wall Thickness Unit(mm) |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $/$ | $10.5-12$ | $12.5-17$ | $18-20$ | $21-25$ | $26-30$ |
| $\Phi 127$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| $\Phi 133$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| $\Phi 140$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| $\Phi 146$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| $\Phi 152$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| $\Phi 159$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| $\Phi 168$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| $\Phi 180$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |

Grade and Chemical Composition

| Grade | $\mathrm{C} \leq$ | Mn | $\mathrm{P} \leq$ | $\mathrm{S} \leq$ | $\mathrm{Si} \geq$ | $\mathrm{Cr} \leq$ | $\mathrm{Cu} \leq$ | $\mathrm{Mo} \leq$ | $\mathrm{Ni} \leq$ | $\mathrm{V} \leq$ |
| :--- | :--- | :--- | :--- | :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| A | 0.25 | $0.27-0.93$ | 0.035 | 0.035 | 0.1 | 0.4 | 0.4 | 0.15 | 0.4 | 0.08 |
| B | 0.3 | $0.29-1.06$ | 0.035 | 0.035 | 0.1 | 0.4 | 0.4 | 0.15 | 0.4 | 0.08 |
| C | 0.35 | $0.29-1.06$ | 0.035 | 0.035 | 0.1 | 0.4 | 0.4 | 0.15 | 0.4 | 0.08 |

Mechanical Properties:

| Grade | Rm Mpa Tensile Strength | Mpa |  | Delivery Condition |
| :--- | :--- | :--- | :--- | :--- |
|  | Yield Point | Elongation | Annealed |  |
| A | $\geq 330$ | $\geq 205$ | 20 | Annealed |
| B | $\geq 415$ | $\geq 240$ | 20 | Annealed |
| C | $\geq 485$ | $\geq 275$ | 20 |  |

## Dimension Tolerances:

| Pipe Type | Pipe Sizes |  | Tolerances |
| :--- | :--- | :--- | :--- |
|  |  | $\leq 48.3 \mathrm{~mm}$ | $\pm 0.40 \mathrm{~mm}$ |
|  |  | $\geq 60.3 \mathrm{~mm}$ | $\pm 1 \% \mathrm{~mm}$ |
|  |  | WT | $\pm 12.5 \%$ |

