Global Leader of

ASTM A106/A 106M GR. B SEAMLESS CARBON STEEL PIPES

ASTM A106 GR. B is the standard applicable to Seamless Carbon Steel Pipe for high-Temperature Service

ASTM A106 GR.B Seamless Carbon steel pipes

ASTM A106/A 106M Standard Covers Seamless Carbon Steel Pipe for high-temperature service in NPS 1/8 TO NPS 48(DN6 to DN1200) inclusive, with nominal (average) wall thickness as given in ASME B 36.10M. It shall be permissible to furnish pipe having other dimensions provided such pipe complies with all other requirements of this specification. Pipe ordered under this specification shall be suitable for bending, flanging, and similar forming operations, and for welding. When the steel is to be welded, it is presupposed that a welding procedure suitable to the grade of steel and intended use or service will be utilized.

ASTM A106/A 106M covers several grades of carbon and alloy steel seamless pipe

ASTM A106/A 106M covers both seamless hot-finished and cold-finished pipe in sizes up to and including NPS 1/8 TO NPS 48(DN6 to DN1200) outside diameter for round tubes with wall thicknesses as required.

Standard: ASTM A106/A 106M

Description Name: ASTM A106B Seamless pipe, ASTM A106 GR. B Seamless pipe, A106 GR. B tubes

https://www.ctstubes.com/  E-mail: cts@ctstubes.com
ASTM A106A Seamless pipe, ASTM A106 GR. A Seamless pipe, A106 GR. A tube

ASTM A106C Seamless pipe, ASTM A106 GR. C Seamless pipe, A106 GR. C tubes

Size: 21.3mm-1219mm

Schedule: SCH10, SCH20, SCH40, SCH80, SCH160 SCHXXS FOR Thickness

Shape: Round or Special sections.

Length: Single random length/ Double random length or as customer’s actual request

Grade: GR. A, GR. B, GR. C

Condition: The purchaser shall specify a sizing method and, if required, a thermal treatment.

- Sizing Methods:
  - HF-Hot Finished,
  - CW-Cold worked,
  - HE-Hot Expand

Test requirement:

ASTM A106 Gr. B Seamless Carbon Steel Pipe Chemical Composition (%) :

<table>
<thead>
<tr>
<th>Standard</th>
<th>Grade</th>
<th>Chemical Components (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>ASTM A106</td>
<td>A</td>
<td>≤0.25</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>≤0.30</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>≤0.35</td>
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</table>
ASTM A106 Gr. B Seamless Carbon Steel Pipe Mechanical Tests Required

<table>
<thead>
<tr>
<th>Standard</th>
<th>Grade</th>
<th>Mechanical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Tensile Strength (Mpa)</td>
</tr>
<tr>
<td>ASTM A106</td>
<td>A</td>
<td>≥330</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>≥415</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>≥485</td>
</tr>
</tbody>
</table>

Permissible Variations in Wall Thickness
The minimum wall thickness at any point shall not be more than 12.5% under the nominal wall thickness specified.

Flattening Tests
Although testing is not required, pipe shall be capable of meeting the flattening test requirements of supplementary requirement S3, if tested.

Marking
Factory name or logo + ASTM A106 + GR. B + size + Heat No. + Lot No.
ASTM A106 GR. B Seamless carbon pipe photos:

![Pipe OD Inspection](image1)

![Wall Thickness Inspection](image2)
STM A106 GR. B Wall thickness. Inspection

ASTM A106 GR. B Seamless Carbon steel pipe
Read more information of this products

- ASTM A106 Gr. B Seamless Carbon Steel Pipe

Related products

- Carbon steel
  - ASTM A179 / ASME SA179 Seamless tubes
  - ASTM A192 / ASME SA192 Seamless boiler tubes
  - ASTM A210 / ASME SA210 GRADE A1 Seamless tubes
  - ASTM A210 / ASME SA210 GRADE C Seamless tubes

- Alloy steel
  - ASTM A213 T11 T12 T22 Seamless alloy tubes
  - ASTM A213/A 213M T2, T5, T5b, T9, T91 Seamless Alloy Steel tubes
  - ASTM A335 P1, P2, P5, P9 Seamless alloy pipes
  - ASTM A335 P11, P12, P22, P91 seamless alloy pipes
  - ASTM A209 ASME SA209 T1 tubes

- Stainless steel and Duplex
  - ASTM A269 Stainless Steel Tubes
  - ASTM A213 Stainless Steel Tubes
  - ASTM A249 Stainless Steel Tubes
  - ASTM A270 Sanitary Stainless Tubing
  - ASTM A312 Stainless Steel Pipes
  - ASTM A789 Duplex Stainless Tubing

- Copper and Brass
  - ASTM B111 Copper and Brass Tubes

Read more information of CTS TUBES main products

- Seamless carbon steel tubes
- Cold drawn precision steel tubes
- Seamless alloy steel tubes
- Copper alloy seamless tubes
- Titanium and titanium alloy tubes
- Stainless steel tubes
- U bent heat exchanger tubes
- Fin tubes
- Bearing steel tubes
About CTS TUBES

CTS TUBES provide a wide range of steel products as Steel Pipes, Seamless Tube and Seamless Pipes, Alloy Pipes, Pipe Fittings, Stainless Steel Pipe, Copper Tube and Titanium Alloy Tube used in the industry, construction etc. We are looking forward to getting in contact by phone or email and we hope that you enjoy our website. More than ten years of profound knowledge turn CTS TUBES to your partner as trading house for tubes, fittings and stainless steel. The name CTS TUBES stands for certified quality, because of that, all products of our wide range consist to demanding norms and the highest standards. CTS TUBES also stands for know-how, effective service, and best solutions for your profit. Our qualified team in our export department in China is always at your disposal and ready to help you. Get in touch if you are interested in our products or cooperation.

Get in Touch

If you are interested in our products or cooperation with us, even having a comment or a suggestion, please contact us now for more detailed information.

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