

ASTM A106 SEAMLESS PIPE SPECIFICATIONS

In Stock A106 / SA106

- Grade B and C
- Sizes ½” to 8”
- Schedules 40(STD) and 80(XH)

Scope

ASTM A106 Seamless Pressure Pipe (also covered in ASME specifications as S/A 106) is the standard specification for seamless carbon steel nominal wall pipe for high-temperature service. Suitable for bending, flanging and similar forming operations.

NPS 1-1/2” and under may be either hot finished or cold drawn. NPS 2” and larger shall be hot finished unless otherwise specified.

Chemical Requirements

Steel Grade	Carbon max %	Manganese %	Phosphorous max %	Sulfur max %	Silicon min %
Grade A	0.25	0.27 - 0.93	0.035	0.035	0.10
Grade B	0.30	0.29 - 1.06	0.035	0.035	0.10
Grade C	0.35	0.29 - 1.06	0.035	0.035	0.10

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.

Permissible Variations in Weights per Foot

Weight of any length shall not vary more than 10% over and 3.5% under that specified. NPS 4 and smaller — weighed in lots. Larger sizes shall be weighed separately by length.

Permissible Variations in Outside Diameter

Outside Diameter at any point shall not vary from standard specified more than:

NPS	Over	Under
1 1/2 and smaller	1/64"	1/32"
2 - 4	1/32"	1/32"
5 - 8	1/16"	1/32"
10 - 18	3/32"	1/32"
20 - 26	1/8"	1/32"

Tensile Requirements

Steel Grade	Tensile Strength min, psi	Yield Point min, psi
Grade A	48,000	30,000
Grade B	60,000	35,000
Grade C	70,000	40,000

Marking on the pipe

- Manufacturer's name or brand.
- Length of pipe.
- A106 A, A 106 B or A 106 C.
- NPS Size
- Wall thickness or designated Schedule
- Hydrostatic test pressures and/or NDE;
- Heat Number