Diameter of Mandrel

12 x nom. dia. of pipe

8 x nom. dia. of pipe

For Pipe Material	Electric-furnace					
	Basic-oxygen					
Hot-Dipped	Not covered in specification.					
Galvanizing						
Permissible Variations	The minimum wall thickness at any point shall not be more than 12.5% under the nominal wall thickness specified.					
in Wall Thickness						
Chemical			Grade A	Grade B	Grade C	
Requirements	Carbon max. %		0.25	0.30	0.35	- 1
	Manganese %		0.27 to 0.93	0.29 to 1.06	0.29 to 1.06	1
1	Phosporous, max. %		0.025	0.025	0.025	1
1	Sulfur, max. %			0.025	0.025	1
	Silicon, min. %		0.10	0.10	0.10	
Tensile	Seamless					
Requirements			Grade A	Grade B	Grade C	1
	Tensile Strength, min., psi		48,000	60,000	70,000	1
	Yield Strength, min., psi		30,000	35,000	40,000	
Hydrostatic	Inspection test pressures produce a stress in the pipe wall equal to 60% or specified minimum yield strength					
Testing	(SMYS) at room temperature. Maximum Pressures are not to exceed 2500 psi for NPS 3 and under and 2800 psi					
	for the larger sizes. Pressure is maintained for not less than 5 seconds.					
Permissible Variations	Weight of any length shall not vary more than 10% over and 3.5% under that specified.					
in Weights per Foot	NOTE NPS 4 and smaller weighed in lots. Larger sizes by length					
Permissible	Outside Diameter at any point shall not vary from standard specified more than—					
Variations in	NPS	Over	Under			- 1

1/32"

1/32"

1/32"

1/32"

1/32"

Smaller than NPS 8 -- weighed in lots. Larger sizes -- by length.

For Normal A106 uses

Length of pipe.

ANSI schedule number.

For Close Coiling

Lengths required shall be specified on order. No "jointers" permitted unless otherwise specified.

Double Random -- Minimum length 22', Minimum average 35'. 5% may be 16' - 22'.

Degree of Bend

On One Length From Each Lot of

400 or less

200 or less

400 or less

400 or less

200 or less

Weight per foot (NPS 4 and larger)

Additional "S" if tested supplementary requirements.

Purchaser may specify NDE

in lieu of hydrostatic test or neither

QΩ

180

Kinds of Steel	Killed Steel
Permitted For	Open-hearth
For Dine Meterial	Electric furness

1 1/2 and smaller

Flattening Test -- NPS 2 and larger. Bending Test(Cold) -- NPS 2 and under.

2 - 4

5 - 8

Tensile

Bonding

Flattening

10 -- 18

20 -- 26

Outside Diameter

Mechanical Tests

Specified

Number of

Lengths

General

Information

Tests Required

Required Markings

(On Tags attached to each Bundie in case

on Each Length

of Bundled Pipe)

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

and similar forming operations.

Specification Scope Covers SEAMLESS carbon steel nominal wall pipe for high-temperature service, suitable for bending, flanging

NPS 1/8 -- 48 ANSI Schedules to 160

1/64"

1/32"

1/16"

3/32"

1/8"

NPS

5 and smaller

6 and larger

2 through 5

6 and over

If no definite lengths required, following practice applies: Single Random -- 16' - 22'. 5% may be 12' - 16'

Unless otherwise specified, pipe furnished with plain ends.

Surface finish standards are outlined in specification.

Rolled Stamped or Stenciled (Mfgrs. option)

Hydrostatic test pressure and/or NDE.

or NH if neither is specified.

Manufacturer's name or brand.

A106 A, A106 B, A106 C.

2 and smaller

Tensile Test -- NPS 8 and larger -- either transverse or longitudinal acceptable