Specification		A106 NPS 1/8 48 ANSI Schedules to 160				
Scope	Covers SEAMLESS carbon steel nominal wall pipe for high-temperature service, suitable for bending, flanging					
	and similar forming oper	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				
	NPS 1 1/2 and under ma					
	specified.					
Kinds of Steel	Killed Steel					
Permitted For	Open-hearth					
For Pipe Material	Electric-furnace					
	Basic-oxygen					
Hot-Dipped	Not covered in specifica	tion.				
Galvanizing						
Permissible Variations	The minimum wall thick	ness at any point s	shall not be more than	12.5% under the	nominal wall thickness specified.	
in Wall Thickness						
Chemical			Grade A	<u>Grade B</u>	Grade C	
Requirements	Carbon max. %		0.25	0.30	0.35	
	Manganese %			0.29 to 1.06	0.29 to 1.06	
	Phosporous, max. %			0.025	0.025	
	Sulfur, max. %			0.025	0.025	
	Silicon, min. %		0.10	0.10	0.10	
Tensile		Seamless				
Requirements			Grade A	Grade B	Grade C	
	Tensile Strength, min., p			60,000	70,000	
	Yield Strength, min., psi			35,000	40,000	
Hydrostatic					ied 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 ar			cified more than		
Variations in	NPS	<u>Over</u>	<u>Under</u>			
Outside Diameter	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"	Paul annual de la		
Mechanical Tests	Tensile Test NPS 8 and larger either transverse or longitudinal acceptable					
Specified	Smaller than NPS 8 weighed in lots. Larger sizes by length. Flattening Test NPS 2 and larger.					
				Doggeo of Bog	d Diameter of Mandral	
	Bending Test(Cold)	NPS 2 and under		Degree of Ber		
			For Normal A106 use		12 x nom. dia. of pipe	
Nh a.v. af		NPS	For Close Coiling	180 _ength From Eac	8 x nom. dia. of pipe	
Number of Tests Required	Tensile	5 and smaller	On one i	400 or less	SII LOT OI	
Tesis Required	Telisile			200 or less		
	Bonding	6 and larger 2 and smaller	•	400 or less		
	Flattening	2 through 5	l	400 or less		
	riatteiling	6 and over		200 or less		
Longtho	Lengths required shall be specified on order. No "jointers" permitted unless otherwise specified.					
Lengths	If no definite lengths required, following practice applies:					
	Single Random 16' - 22'. 5% may be 12' - 16'					
	Double Random Minimum length 22', Minimum average 35'. 5% may be 16' - 22'.					
Required Markings		Rolled Stamped or Stenciled (Mfgrs. option)				
on Each Length	Manufacturer's name or brand. Length of pipe.					
•	A106 A, A106 B, A106 C. ANSI schedule number.					
(On Tags attached to each Bundie in case		Hydrostatic test pressure and/or NDE. Weight per foot (NPS 4 and larger)			larger)	
of Bundled Pipe)	or NH if neither is specified. Additional "S" if tested supplementary requirements.					
General	, , , ,					
Information	•	* Unless otherwise specified, pipe furnished with plain ends. * Purchaser may specify NDE * Surface finish standards are outlined in specification. * Purchaser may specify NDE in lieu of hydrostatic test or neither				
iniormation	Surrace finish standa	rus are outlined in	ı specification.	in lieu of hydro	static test of neither	