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SPECIALIST IN

Carbon Steel Stainless Steel Alloy Steel Low Temperature & High Pressure Materials

Pipe Specification A106

Specification	A106 NPS 1/8	48 ANSI Sak	nedules to 160		
Scope				mnerature service	suitable for bending flanging
Scope	Covers SEAMLESS carbon steel nominal wall pipe for high-temperature service, suitable for bending, flanging and similar forming operations. NDS 1.1/2 and under may be either bet finished as cold drawn, NDS 2 and larges shall be bet finished unless otherwise.				
	Kinds of Steel	Killed Steel			
Permitted For	Open-hearth				
For Pipe Material	Electric-furnace Basic-oxygen				
i oi ripe material					
Hot-Dipped	Not covered in specifica	tion			
Galvanizing	Thot covered in specifica	uon.			
Permissible Variations	The minimum wall thick	ness at any noint	shall not be more tha	n 12 5% under the	nominal wall thickness specified.
in Wall Thickness	THE HIMMON	icoo at any point	oriali not be more the	11 12.0 /0 dilaci tile	Tiorinia wan unokiess specifica.
Chemical			Grade A	Grade B	Grade C
Requirements	Carbon max. %			0.30	0.35
requirements	Manganese %			0.29 to 1.06	0.29 to 1.06
	Phosporous, max. %			0.025	0.025
	•				
	Sulfur, max. %			0.025	0.025
Tanaila	Silicon, min. %		0.10	0.10	0.10
Tensile		Seamless	Grade A	Grade B	Grada C
Requirements	T!!- Ot !! !	:	Grade A	Grade B	Grade C
	Tensile Strength, min., p			60,000	70,000
	Yield Strength, min., psi			35,000	40,000
Hydrostatic					fied 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 sha				cified.
in Weights per Foot	NOTE NPS 4 and sm				
Permissible	Outside Diameter at ar			pecified 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"		
Mechanical Tests	Tensile Test NPS 8 a	•	_	•	
Specified	Smaller than NPS 8 weighed in lots. Larger sizes by length.				
	Flattening Test NPS	_			
	Bending Test(Cold)	NPS 2 and unde	r.	Degree of Ber	nd Diameter of Mandrel
			For Normal A106 u	ses 90	12 x nom. dia. of pipe
			For Close Coiling	180	8 x nom. dia. of pipe
Number of		NPS	On One	Length From Eac	ch Lot of
Tests Required	Tensile	5 and smaller	•	400 or less	
		6 and larger		200 or less	
	Bonding	2 and smalle	r	400 or less	
	Flattening	2 through 5		400 or less	
		6 and over		200 or less	
Lengths	Lengths required shall be specified on order. No "jointers" permitted unless otherwise specified.				
	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				070 may be 10 -	
on Each Length	Rolled Stamped or Stenciled (Mfgrs. option) Manufacturer's name or brand. Length of pipe.				
•	Manufacturer's name or brand. Length of pipe. A106 A, A106 B, A106 C. ANSI schedule number.				
On Tags attached to					larger)
each Bundie in case	Hydrostatic test pressure and/or NDE. Weight per foot (NPS 4 and larger) or NH if neither is specified. Additional "S" if tested supplementary requirements.			·	
of Bundled Pipe)	or NH if neither is sp				
General	* Unless otherwise spec	atied, pipe furnish	ned with plain ends.	* Purchaser may	specify NDE
Information	 * Surface finish standa 				static test or neither