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Pipe Specification API 5L

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			•	Pipe Speci					
Specification	API 5L NF	PS 1/8 26							
Scope	Covers WELDED and SEAMLESS pipe suitable for use in conveying gas, water, and oil in both the oil and natural gas industries.								
Kinds of Steel Permitted	Open-hearth	Basic-oxy	gen						
For Pipe Material	Electric-furnace								
Hot-Dipped	May be ordered of	jalvanized.							
Galvanizing								(22	
Permissible Variations					rade A, B, A25	Х	(42 through )		
in Wall Thickness	NPS 2 1/2 and smaller Seamless and welded, %			ed, %	+20 12.5		+15 12.5	i	
	NPS 3 Seamless and welded, %				+18 12.5		+15 12.5		
	NPS 4 through 18 Seamless and welded, %				+15 12.5		+15 12.5		
	NPS 20 and larger Welded, %				+17.5 10.0		+19.5 8.0	)	
	NPS 20 and larg	er Seamless, %			+15.0 12.5		+17.5 10.0	)	
Chemical		C max %	Mn max %	<u>6 P max % S</u>	max %				
Requirements	Seamless or ER	W							
-	Grade A	0.25	0.95	0.05	0.06				
	Grade B	0.30	1.20	0.05	0.06				
	Continuous-weld		_		0.06				
Tensile		eld and tensile stre	enoth for a			ensile strenath	for X80		
Requirements	1		J	J		J		ss requirement is specified	
Hydrostatic	Maximum yield-to-tensile ratios outlined for cold-expanded pipemay be waived when a fracture toughness requirement is specified.  Lists hydrostatic inspection test pressures  Test Pressures are held for not less than:								
Testing	Lists hydrostatic inspection test pressures for all sizes and grades covered by the  Test Pressures are held for not less than: Seamless (all sizes) 5 seconds							••	
resung					,				
Pormissible Verietiens	specification. Welded (NPS 18 and smaller) 5 seconds								
	(NPS 20 and larger) 10 seconds  For each length of Standard Weight, Regular Weight, For Special Plain End Not more than plus 10% minus 5%.								
Permissible Variations	_	_	_	_	For Special	i Piain End N	ot more tnan	pius 10% minus 5%.	
in Weights per Foot	_	d Double Extra Str	ong Not	more tnan				4.750/	
	plus 10% minus 3.5%. For Carload Lots Not more than minus 1.75%.								
Permissible Variations	Outside Diamet				Sizes		ver	Under	
in Outside Diameter	at any point shall	I not vary from star	ndard spec	cified more tha					
						2 and smaller		1/32"	
					NPS 2 thre	ough 4	1%	1% (Buttweld Only)	
					NPS 2 thre	ough 18	.75%	.75%	
					NPS 20 th	nrough 26			
							1%	1%	
Mechanical Tests	Tensile Test				Bending	Test (Cold)			
Specified	Seamless and Buttwelded All Sizes Longitudinal Specimens Degree of Bend Diameter of Mandrel							Diameter of Mandrel	
	Electric Weld NPS 6 and smaller Longitudinal				For all A	API Uses	90	12 x OD of pipe	
	l N	NPS 8 and Larger -	- Transvei	rse					
Number of			0	n One Length	1				
Tests Required		NPS	Fre	om Each Lot	of_	Flattening	9		
	<b>Tensile</b> 5 ar	nd smaller		40 or less	Non-Expand	ded Electric-We	eld for single	lengths crop ends from each	
	6 through 12 200 or less			200 or less	length. For n	length. For multiple lengths, crop ends from each length, plus 2			
	I	and larger		100 or less	intermediate		•	- ·	
	I	and smaller (Buttwe	eld)	25 tons or les	S	J			
	1	/2 and smaller (Bu		50 tons or less					
Lengths					Minimur	m			
, and the second		Shortes	t	Shortest	Average				
		Length		Length in 95%	_				
	Threaded 8	_		of Entire	of Entire				
	Coupled Pi								
		-		Shipment	Shipment				
	Single Rando			18' 0"	 25! 0"				
	Double Rando				35' 0"				
Dearrined Mantel		or Die Stamped (		-	Ld.			ALLES AND A	
			C.bl., SIZE.	weight per too	t, grade, process	ot manufacture	e, type of stee	ei, iength (NPS 4	
on Each Length	Manufacturer's n								
on Each Length (On Tags attached to	Manufacturer's n and larger only).	Test pressure who	en higher t	han labulated(	NPS 2 and larger	r only).			
on Each Length (On Tags attached to each Bundle in case	Manufacturer's n and larger only).		en higher t	han labulated(	NPS 2 and larger	r only).			
on Each Length (On Tags attached to each Bundle in case of Bundled Pipe)	Manufacturer's nand larger only). Heat treat symbo	Test pressure who	en higher t - HN, HS, l	han labulated( HA or HQ.	J	-,			
Required Markings on Each Length (On Tags attached to each Bundle in case of Bundled Pipe) General	Manufacturer's n and larger only). Heat treat symbol Supplementary	Test pressure whols, as applicable  Requirements as	en higher t - HN, HS, l	han labulated( HA or HQ.	J	-,	Welded Pipe	20" & largerGrade X52 or higher	
on Each Length (On Tags attached to each Bundle in case of Bundled Pipe)	Manufacturer's nand larger only). Heat treat symbo	Test pressure whols, as applicable  Requirements as	en higher t - HN, HS, l	han labulated( HA or HQ. hen specified	. SR5Charpy in	npact Testing	•	20" & largerGrade X52 or higher " & largerGrade X52 or higher.	