

## Pipe Specification API 5L

Specification	API 5L	NPS 1/8	3 26									
Scope				pipe suita	able for use in	conveying g	as, water, and oil i	n both the oi	and natural g	as industries.		
Kinds of Steel Permitted	Open-heartl	h	Basic-oxy	gen								
For Pipe Material	Electric-furnace											
Hot-Dipped	May be orde	ered galvaniz	zed.									
Galvanizing												
Permissible Variations							ade A, B, A25 X42 through X80					
in Wall Thickness						+20 12	20 12.5 +15 12.5					
	NPS 3 Seamless and welded, %					+18 12	18 12.5 +15 12.5					
	NPS 4 through 18 Seamless and welded, %					+15 12	15 12.5 +15 12.5					
	NPS 20 and larger Welded, %					+17.5 1	0.0	+19.5				
	NPS 20 and	d larger Se				+15.0 12.5			+17.5 10.0			
Chemical	C max % Mn max % P max % S max %											
Requirements	Seamless or ERW											
	Grade A		0.25	0.95	0.05	0.06						
	Grade B		0.30	1.20	0.05	0.06						
	Continuous		-	-	0.08	0.06						
Tensile	Lists minimum yield and tensile strength for all grads as well as a maximum tensile strength for X80.											
Requirements	Maximum yield-to-tensile ratios outlined for cold-expanded pipemay be waived when a fracture toughness requirement is specified.											
Hydrostatic	Lists hydrostatic inspection test pressures  Test Pressures are held for not less than:											
Testing	for all sizes and grades covered by the						Seamless (all sizes) 5 seconds					
	specification.					We	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 S	pecial Plain End -	- Not more th	nan plus 10% i	ninus 5%.		
in Weights per Foot		g, and Doub	ole Extra Stro	ng Not	t more than							
	plus 10% m						arload Lots Not i					
Permissible Variations	Outside Dia						Sizes	Over	Under			
in Outside Diameter	at any point	shall not va	ary from star	ndard spe	ecified more ti							
							S 1 1/2 and smalle		1/32"			
							S 2 through 4	1%		ttweld Only)		
							S 2 through 18	.75%	.75%			
							S 20 through 26	407	407			
Markania I Tark	Tanaila Tar	<b>-</b> 4					lon-expanded	1%	1%			
Mechanical Tests	Tensile Test  Bending Test (Cold) 2" and smaller Buttweld.  Seamless and Buttwelded All Sizes Longitudinal Specimens  Degree of Bend Diameter of Mandrel											
Specified	<u>Seamless and Buttwelded</u> All Sizes Longitudinal Specimer <u>Electric Weld</u> NPS 6 and smaller Longitudinal						or all API Uses	egree or be				
	NPS 8 and Larger Transverse					Г	or all API Uses	90		12 x OD of pipe		
No b		NPS 8 a	and Larger -			41.						
Number of		NDC			On One Leng rom Each Lo		Flatter	.i.a				
Tests Required	NPS Tensile 5 and smaller				40 or less			U	•			
							Non-Expanded Electric-Weld for single lengths crop ends from each length. For multiple lengths, crop ends from each length, plus 2					
	6 through 12 14 and larger				200 or less	_	intermediate rings.			ength, plus 2		
			-	1-1\	100 or less		ediate rings.					
	Bending		aller (Buttwe smaller (But	,	25 tons or le							
Longtho	bending	1 1/2 and	Smaller (Bui	itweiu)	30 10115 01 16		inimum					
Lengths			Chartasi		Chartant							
			Shortest		Shortest		erage					
	Thron	امما ٥	Length		Length in 95		ength Entire					
	Thread		In Entire		of Entire		Entire					
		ed Pipe	Shipment		Shipment	Snip	ment					
	Single R		16' 0'		18' 0"							
Descriped Mentilers	Double F		22' 0"		 		35' 0"					
Required Markings		ciled or Die						in was to make a first	ataal less sitts /k	IDC 4		
on Each Length	Manufacturer's name or mark. Spec 5L, size, weight per foot, grade, process of manufacture, type of steel, length (NPS 4 and larger only). Test pressure when higher than labulated(NPS 2 and larger only).											
(On Tags attached to	-			_		a(NPS 2 and	iarger only).					
each Bundle in case	Heat treat s	ymbols, as	applicable	HN, HS,	, HA or HQ.							
of Bundled Pipe)						1 65		14		0 1 1/22 :::		
General		-		ailable v	-			-		erGrade X52 or higher		
• '	SR3 Colo	or Identificati	ion.		SR6	Drop Wei		Welded Pipe	20" & larger	erGrade X52 or higher Grade X52 or higher.		