

Technical Data Sheet - Pipe to API 5L 46th Edition / IS/ISO:3183-2019

Out Side Diameter Tolerance	Body End	Specified OD	+ 0.0075D (0.75%)
		From 88.9 mm OD to 168.3 mm OD	Specified OD +1.60 mm, -0.40 mm
		From 219.1 mm OD mm to 323.9 mm OD	Specified OD +0.005D (+0.5%)
Thickness Tolerances	For thickness < 5.00 mm		+0 .5 mm
	For thickness >5.00 mm to 15 mm		+10%
Weight Tolerances	Special PE pipes (Single Tube)		+10%, - 5%
	For other pipes (Single Tube)		+10% - 3.5%
	Lot of 20 Ton		-1.75%

PHYSICAL PROPERTIES

	PSL-1		PSL-2				Minimum % of Elongation (For PSL-1 & PSL-2)
Grade	Yield Stress (Mpa)	Tensile Strength (Mpa)	Yield Stress (Mpa)		Tensile Strength (Mpa)		
	Min.	Max.	Min.	Max.	Min.	Max.	
L210/A	210	335					As per Table 6 (c) & 7 (f) of API 5L
L245/B	245	415	245	450	415	655	
L290/X42	290	415	290	495	415	655	
L320/X46	320	435	320	525	435	655	
L360/X52	360	460	360	530	460	760	
L390/X56	390	490	390	545	490	760	
L415/X60	415	520	415	565	520	760	
L450/X65	450	535	450	600	535	760	
L485/X70	485	570	485	635	570	760	

Chemical Properties

Specified Requirements (%)														
Grade	PSL-1					PSL-2								
	C	Mn	P	S	Others	C	Mn	P	S	Si	V	Nb	Ti	Others
L210/A	0.22	0.90	0.03	0.03		-	-	-	-	-				
L245/B	0.26	1.20	0.03	0.03		0.22	1.20	0.025	0.015	0.45				
L290/X42	0.26	1.30	0.03	0.03		0.22	1.30	0.025	0.015	0.45				
L320/X46	0.26	1.40	0.03	0.03	Nb+V < 0.06%	0.22	1.30	0.025	0.015	0.45	As per Table 5 foot notes d, e, g, h and l of API 5L			
L360/X52	0.26	1.40	0.03	0.03	Nb+V+Ti < 0.15 % of API 5L	0.22	1.40	0.025	0.015	0.45				
L390/X56	0.26	1.40	0.03	0.03		0.22	1.40	0.025	0.015	0.45				
L415/X60	0.26	1.40	0.03	0.03		0.12	1.60	0.025	0.015	0.45				
L450/X65	0.26	1.45	0.03	0.03		0.12	1.60	0.025	0.015	0.45				
L485/X70	0.26	1.65	0.03	0.03		0.12	1.70	0.025	0.015	0.45				

JINDAL-HISSAR MANUFACTURES PIPE AS PER API 5L SIZE 80mm NB to 300mm NB, API 5L LICENCE NO. 5L-1163

JINDAL-HISSAR MANUFACTURES PIPE AS PER IS/ISO 3183 SIZE 80mm NB to 300mm NB, IS/ISO 3183 LICENCE NO CM/L 9586509



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Size (OD) (mm)	Thk (mm)	Hydro Testing Test Pressure (In Kgs)								
		Grades								
		A	B	X42	X46	X52	X56	X60	X65	X70
88.9	4.00	115.7	134.9	159.7	176.2	198.3	214.8	228.6	247.8	267.1
88.9	4.40	127.2	148.4	175.7	193.9	218.1	236.3	251.4	272.6	293.8
88.9	4.80	138.8	161.9	191.7	211.5	237.9	257.7	274.3	297.4	320.5
88.9	5.50	159.0	185.5	219.6	242.3	272.6	295.3	314.3	340.8	367.3
88.9	6.40	185.0	215.9	255.5	282.0	317.2	343.7	365.7	396.5	427.4
88.9	7.10	205.3	239.5	283.5	312.8	351.9	381.2	405.7	439.9	474.1
88.9	7.60	219.7	256.4	303.5	334.8	376.7	408.1	434.3	470.9	507.5
114.3	4.00	90.0	104.9	124.2	137.1	154.2	167.1	177.8	192.8	207.7
114.3	4.40	98.9	115.4	136.6	150.8	169.6	183.8	195.5	212.0	228.5
114.3	4.80	107.9	125.9	149.1	164.5	185.0	200.5	213.3	231.3	249.3
114.3	5.20	116.9	136.4	161.5	178.2	200.5	217.2	231.1	250.6	270.1
114.3	5.60	125.9	146.9	173.9	191.9	215.9	233.9	248.9	269.9	290.8
114.3	6.00	134.9	157.4	186.3	205.6	231.3	250.6	266.6	289.1	311.6
114.3	6.40	143.9	167.9	198.8	219.3	246.7	267.3	284.4	308.4	332.4
114.3	7.10	159.7	186.3	220.5	243.3	273.7	296.5	315.5	342.1	368.8
114.3	7.90	177.7	207.3	245.3	270.7	304.6	329.9	351.1	380.7	410.3
114.3	8.60	193.4	225.6	267.1	294.7	331.5	359.2	382.2	414.4	446.7
141.3	4.00	72.8	84.9	100.5	110.9	124.7	135.1	143.8	155.9	168.1
141.3	4.80	87.3	101.9	120.6	133.1	149.7	162.2	172.6	187.1	201.7
141.3	5.60	101.9	118.8	140.7	155.2	174.6	189.2	201.3	218.3	235.3
141.3	6.60	120.1	140.1	165.8	183.0	205.8	223.0	237.3	257.3	277.3
141.3	7.10	129.2	150.7	178.4	196.8	221.4	239.9	255.2	276.8	298.3
141.3	7.90	143.7	167.7	198.5	219.0	246.4	266.9	284.0	307.9	331.9
141.3	8.70	158.3	184.6	218.6	241.2	271.3	293.9	312.8	339.1	365.5
141.3	9.50	172.8	201.6	238.6	263.3	296.3	320.9	341.5	370.3	399.1
168.3	4.00	61.1	71.3	105.5	116.4	130.9	141.8	150.9	163.6	176.4
168.3	4.40	67.2	78.4	116.0	128.0	144.0	156.0	166.0	180.0	194.0
168.3	4.80	73.3	85.5	126.5	139.6	157.1	170.2	181.1	196.4	211.6
168.3	5.20	79.4	92.7	137.1	151.3	170.2	184.4	196.2	212.7	229.3
168.3	5.60	85.5	99.8	147.6	162.9	183.3	198.5	211.3	229.1	246.9
168.3	6.40	97.7	114.0	168.7	186.2	209.5	226.9	241.5	261.8	282.2
168.3	7.10	108.4	126.5	187.2	206.5	232.4	251.7	267.9	290.5	313.0

Size (OD) (mm)	Thk (mm)	Hydro Testing Test Pressure (In Kgs)								
		Grades								
		A	B	X42	X46	X52	X56	X60	X65	X70
168.3	7.90	120.7	140.8	208.3	229.8	258.5	280.1	298.0	323.2	348.3
168.3	8.70	132.9	155.0	229.4	253.1	284.7	308.5	328.2	355.9	383.6
168.3	9.50	145.1	169.3	250.5	276.4	310.9	336.8	358.4	388.6	418.9
219.1	4.00	46.9	54.7	81.0	89.4	100.6	108.9	115.9	125.7	135.5
219.1	4.80	56.3	65.7	97.2	107.3	120.7	130.7	139.1	150.8	162.6
219.1	5.20	61.0	71.2	105.3	116.2	130.7	141.6	150.7	163.4	176.1
219.1	5.60	65.7	76.6	113.4	125.1	140.8	152.5	162.3	176.0	189.7
219.1	6.40	75.1	87.6	129.6	143.0	160.9	174.3	185.5	201.1	216.8
219.1	7.00	82.1	95.8	141.8	156.4	176.0	190.6	202.9	220.0	237.1
219.1	7.90	92.7	108.1	160.0	176.5	198.6	215.1	228.9	248.2	267.6
219.1	8.20	96.2	112.2	166.1	183.2	206.1	223.3	237.6	257.7	277.7
219.1	8.70	102.1	119.1	176.2	194.4	218.7	236.9	252.1	273.4	294.7
219.1	9.50	111.5	130.0	192.4	212.3	238.8	258.7	275.3	298.5	321.7
273.1	4.00	37.6	43.9	73.7	81.3	91.4	99.0	105.4	114.3	123.2
273.1	4.80	45.2	52.7	88.4	97.5	109.7	118.9	126.5	137.1	147.8
273.1	5.20	48.9	57.1	95.7	105.7	118.9	128.8	137.0	148.6	160.1
273.1	5.60	52.7	61.5	103.1	113.8	128.0	138.7	147.6	160.0	172.4
273.1	6.40	60.2	70.3	117.8	130.0	146.3	158.5	168.6	182.9	197.1
273.1	7.10	66.8	78.0	130.7	144.3	162.3	175.8	187.1	202.9	218.6
273.1	7.80	73.4	85.6	143.6	158.5	178.3	193.1	205.5	222.9	240.2
273.1	8.70	81.9	95.5	160.2	176.8	198.9	215.4	229.2	248.6	267.9
273.1	9.30	87.5	102.1	171.2	189.0	212.6	230.3	245.1	265.7	286.4
323.9	4.40	34.9	40.7	68.3	75.4	84.8	91.9	97.8	106.0	114.2
323.9	4.80	38.1	44.4	74.5	82.2	92.5	100.2	106.6	115.6	124.6
323.9	5.20	41.3	48.1	80.7	89.1	100.2	108.6	115.5	125.3	135.0
323.9	5.60	44.4	51.8	86.9	95.9	107.9	116.9	124.4	134.9	145.4
323.9	6.40	50.8	59.3	99.4	109.6	123.3	133.6	142.2	154.2	166.2
323.9	7.10	56.3	65.7	110.2	121.6	136.8	148.2	157.7	171.0	184.3
323.9	7.90	62.7	73.1	122.6	135.3	152.3	164.9	175.5	190.3	205.1
323.9	8.40	66.7	77.8	130.4	143.9	161.9	175.4	186.6	202.4	218.1
323.9	8.70	69.0	80.5	135.1	149.0	167.7	181.6	193.3	209.6	225.9
323.9	9.50	75.4	88.0	147.5	162.7	183.1	198.3	211.1	228.9	246.7

