



# CUSTOMISED SOLUTIONS WORLDWIDE

**BENTELER**   
Distribution



**LINE  
PIPE**  
ASTM A106 GrB  
API 5L GrB  
API 5LX 52N



## ASTM A106 GRADE B

in accordance with NACE MR 0175 requirements

### Chemical composition

Carbon 0.30% max.  
Silicon 0.10% max.  
Manganese 0.29/1.06% max.  
Sulphur 0.058% max.  
Phosphorus 0.058% max.

### Physical Properties

Tensile Strength 413N/mm<sup>2</sup> min.  
Yield Strength 241N/mm<sup>2</sup> min.

## API 5L X52 N - MOD

Seamless tubes in accordance with this specification are made from fine grained steel and normalised.

They are Charpy impact V-notch tested at - 50° Celsius to give 42 joules minimum average.

100% US inspection to API 5L SR4 with notch 5% of nominal wall with minimum of 0.4/maximum 1.5mm

They meet the requirements of NACE MR 01-75 90. Both chemical and mechanical properties conform to grade 355 EM and BS 7191 resp EEMUA specn. Flattening tests performed in accordance with API 5L section 4.11.

Supplied in lengths up to 13m or in exact lengths.

Calibrated and bevelled ends of thicknesses up to and including 25.4mm.

Lloyds Certificates in accordance with DIN 50049

**Full details available on request.**

## API 5L GRADE B

### Chemical composition

Carbon 0.27% max.  
Manganese 1.15% max.  
Sulphur 0.05% max.  
Phosphorus 0.04% max.

### Physical Properties

Tensile Strength 413N/mm<sup>2</sup> min.  
Yield Strength 241N/mm<sup>2</sup> min.





PIPE SIZE	OD IN mm	10	20	30	STD WALL 40 S	40	60	EXTRA HEAVY 80 S	80	100	120	140	160	DBLE EXTRA HEAVY
1/8	10.3				1.73	1.73		2.41	2.41					
					0.36	0.36		0.46	0.46					
1/4	13.7				2.24	2.24		3.02	3.02					
					0.63	0.63		0.80	0.80					
3/8	17.1				2.31	2.31		3.20	3.20					
					0.85	0.85		1.10	1.10					
1/2	21.3				2.77	2.77		3.73	3.73					4.78 7.47
					1.26	1.26		1.62	1.62					1.95 2.54
3/4	26.7				2.87	2.87		3.91	3.91					5.56 7.82
					1.68	1.68		2.19	2.19					2.89 3.63
1	33.4				3.38	3.38		4.55	4.55					6.35 9.09
					2.50	2.50		3.23	3.23					4.23 5.45
1 1/4	42.2				3.56	3.56		4.85	4.85					6.35 9.70
					3.38	3.38		4.46	4.46					5.60 7.75
1 1/2	48.3				3.68	3.68		5.08	5.08					7.14 10.16
					4.05	4.05		5.40	5.40					7.23 9.54
2	60.3				3.91	3.91		5.54	5.54					8.74 11.07
					5.43	5.43		7.47	7.47					11.10 13.44
2 1/2	73.0				5.16	5.16		7.01	7.01					9.52 14.02
					8.62	8.62		11.40	11.40					14.90 20.39
3	88.9				5.49	5.49		7.62	7.62					11.13 15.24
					11.28	11.28		15.25	15.25					21.30 27.65
3 1/2	101.6				5.74	5.74		8.08	8.08					
					13.56	13.56		18.62	18.62					
4	114.3				6.02	6.02		8.56	8.56		11.13			13.49 17.12
					16.06	16.06		22.30	22.30		28.25			33.51 40.99
5	141.3				6.55	6.55		9.52	9.52		12.70			15.88 19.05
					21.76	21.76		30.92	30.92		40.24			49.05 57.38
6	168.3				7.11	7.11		10.97	10.97		14.27			18.26 21.95
					28.23	28.23		42.53	42.53		54.30			67.47 79.11
8	219.1		6.35	7.04	8.18	8.18	10.31	12.70	12.70	15.09	18.26	20.62	23.01	22.22
			33.38	36.76	42.49	42.49	53.07	64.57	64.57	75.79	90.32	100.86	111.18	107.78
10	273.0		6.35	7.80	9.27	9.27	13.07	12.70	15.09	18.26	21.44	25.40	28.58	25.40
			41.73	50.96	60.24	60.24	81.46	81.46	95.84	114.59	132.85	154.97	172.11	157.96
12	323.9		6.35	8.38	9.52	10.31	14.27	12.70	17.47	21.44	24.40	28.58	33.34	25.40
			49.68	65.14	73.76	79.71	108.97	97.36	131.81	159.67	186.75	207.87	238.60	186.75
14	355.6	6.35	7.92	9.52	9.52	11.13	15.09	12.70	19.05	23.82	27.79	31.75	35.71	
		54.63	67.98	81.21	81.21	94.31	127.11	107.28	157.94	194.62	224.36	253.32	281.49	
16	406.4	6.35	7.92	9.52	9.52	12.70	16.64	12.70	21.44	26.19	30.96	36.52	40.49	
		62.58	77.92	93.12	93.13	132.18	160.04	123.18	203.26	245.34	286.33	332.72	364.35	
18	457.2	6.35	79.2	11.13	9.52	14.27	19.05	12.70	23.82	29.36	34.92	39.69	45.24	
		70.53	87.85	122.12	105.05	155.90	205.62	139.07	254.24	309.06	363.33	408.21	459.18	
20	508.0	6.35	9.52	12.70	9.52	15.09	20.62	12.70	26.19	32.54	38.10	44.45	50.01	
		78.47	116.97	154.97	116.97	183.14	247.79	154.97	310.91	381.20	441.06	507.63	564.24	
22	558.8	6.35	9.52	12.70	9.52	15.88	22.22	12.70	23.58	34.92	41.28	47.62	53.98	
		86.42	128.89	170.86	128.89	212.34	293.80	170.86	373.27	450.75	526.24	599.76	671.28	
24	609.6	6.35	9.52	14.27	9.52	17.48	24.61	12.70	30.96	38.89	46.02	52.39	59.54	
		94.37	140.81	209.54	140.81	254.74	354.62	186.75	441.29	546.84	639.18	719.16	806.74	

Thickness mm  
Weight Kg/m

**South - Midlands**

Armstrong Road  
Daneshill Industrial Estate  
Basingstoke  
Hampshire  
RG24 8NU

**North**

New Progress Works  
Crompton Way  
Bolton  
Lancashire  
BL1 8TY

**Scotland**

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Middlefield Industrial Estate  
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