

DIN 2391	ST 35	≤0.17	≥0.40	≤0.35	/	/	≤0.05	≤0.025	≤0.025	Nb+Ti+V≤0.05%	≤0.03 (Nb≤0.03)	D≤150 S≤9	√	/	340~470	≥235	≥25	/	/	≤500	+2	-0	Normalizing	ET or UT water pressure	ET或UT										
	St 45	≤0.21	≥0.40	≤0.35	/	/	≤0.05	≤0.025	≤0.025	Nb+Ti+V≤0.05%	≤0.03 (Nb≤0.03)	D≤150 S≤9	√	/	440~570	≥255	≥21	/	/	>500~2000	+3	-0	annealing												
	St 52	≤0.22	≤1.60	≤0.55	/	/	≤0.05	≤0.025	≤0.025	Nb+Ti+V≤0.05%	≤0.03 (Nb≤0.03)	D≤150 S≤9	√	/	490~630	≥355	≥22	/	/	>2000~5000	+5	-0	Normalizing												
															≥390	≥195	≥21			>5000~7000	+10	-0	annealing												
JIS G 3461	STB 35	≤0.18	0.30~0.60	≤0.35	/	/	/	≤0.035	≤0.035	/	/	/	√	√	/	≥340	≥175	≥35	HRB≤77	/	details as per standards	D<40 S<2	+0.4 -0	D≤50 L≤7000	+0.7	-0	Normalizing	ET or UT water pressure	ET或UT						
	STB 42	≤0.32	0.30~0.60	≤0.35	/	/	/	≤0.035	≤0.035	/	/	/	√	√	/	≥410	≥255	≥25	HRB≤79	/		D<40 S≥2	+20% -0	D>50 L≤7000	+10	-0	Normalizing								
	STB 52	≤0.25	1.00~1.50	≤0.35	/	/	/	≤0.035	≤0.035	/	/	/	√	√	/	≥510	≥295	≥25	HRB≤92	/		D≥40 S≥2	+22% -0	other	+15	-0	Normalizing								
EN102 55	S195T	≤0.20	≤1.40	/	/	/	/	≤0.030	≤0.035	/	/	/	D>60.3	17.2≥D≤	320~520	≥195	≥20				±12.5%	6000 or	±500	annealing	ET water pressure	ET									
EN102 16-1	P235 TR2	≤0.16	≤1.20	≤0.35	≤0.30	≤0.08	≤0.02	≤0.020	≤0.025	≤0.30	≤0.04 (Al≥0.02)	≤0.04 (Nb≤0.01)	/	/	360~500	≥235	≥25	-10 °C 10×10×55	≥28	±1% or ±0.5mm Whichever is greater				Normalizing	ET water pressure	ET									
GB/T8 162-08	10	0.07~0.13	0.35~0.65	0.17~0.37	≤0.15	/	/	≤0.035	≤0.035	≤0.25	≤0.30	/	x	Z	Y	≥335	≥205	≥24			all ±1% or ±0.3mm Whichever is greater	≤3	+15% -10% or ±0.15 whichever is greater	≤6000	+10	0	annealing	/	/						
	20	0.17~0.23	0.35~0.65	0.17~0.37	≤0.25	/	/	≤0.035	≤0.035	≤0.25	≤0.30	/	x	Z	Y	≥390	≥245	≥20				>3	+12.5% -10%	>6000	+15	0									
	35	0.32~0.39	0.50~0.80	0.17~0.37	≤0.25	/	/	≤0.035	≤0.035	≤0.25	≤0.30	/	x	/	Y	≥510	≥305	≥17																	
	45	0.42~0.50	0.50~0.80	0.17~0.37	≤0.25	/	/	≤0.035	≤0.035	≤0.25	≤0.30	/	x	/	Y	≥590	≥335	≥14																	
	Q345	≤0.20	1.00~1.60	≤0.55	/	/	/	≤0.045	≤0.045	/	/	0.02~0.20	x	Z	Y	≥490	≥325	≥21																	
GB/T8 163-08	10	0.07~0.13	0.35~0.65	0.17~0.37	≤0.15	/	/	≤0.035	≤0.035	≤0.25	≤0.30	/	x	Z	Y	335~475	≥205	≥24			all ±1% or ±0.3mm Whichever is greater	≤3	+15% -10% or W34 V47±0.15 Whichever is greater	≤6000	+10	0	annealing	ET or UT water pressure	ET或UT						
	20	0.17~0.23	0.35~0.65	0.17~0.37	≤0.25	/	/	≤0.035	≤0.035	≤0.25	≤0.30	/	x	Z	Y	410~530	≥245	≥20				>3	+12.5% -10%	>6000	+15	0									
	Q295	≤0.16	0.80~1.50	≤0.55	/	/	/	≤0.045	≤0.045	/	/	0.02~0.20	x	Z	Y	390~570	≥295	≥22																	
	Q345B	≤0.20	1.00~1.60	≤0.55	/	/	/	≤0.045	≤0.045	/	/	0.02~0.20	x	Z	Y	470~530	≥345	≥21																	
GB308 7-99	10	0.07~0.13	0.35~0.65	0.17~0.37	≤0.15	/	/	≤0.035	≤0.035	≤0.25	≤0.30	/	x	W	Y	335~475	≥195	≥24			10~30	±0.40	>1.5~3	+15% -10%											
	20	0.17~0.23	0.35~0.65	0.17~0.37	≤0.25	/	/	≤0.035	≤0.035	≤0.25	≤0.30	/	x	W	Y	410~550	≥245	≥20			30~50	±0.45	>3	+12.5% -10%		+20	0	annealing	ET or UT water pressure	ET或UT					
GB531 0-95	20G	0.17~0.24	0.35~0.65	0.17~0.37	≤0.25	≤0.15	≤0.08	≤0.030	≤0.030	≤0.20	≤0.25	/	x	V	/	410~550	≥245	≥24			D≥76mm S≥14mm AKV≥35	≤30	±0.20	2~3	+12% -10%										
	12CrMoG	0.08~0.15	0.40~0.70	0.17~0.37	0.40~0.70	0.40~0.55	/	≤0.030	≤0.030	≤0.20	≤0.30	/	x	V	/	410~560	≥205	≥21				>30~50	±0.30	>3	±10%		+20	0	normalizing + tempering	ET water pressure	ET+UT				
	12Cr1MoVG	0.08~0.15	0.40~0.70	0.17~0.37	0.90~1.20	0.25~0.35	0.15~0.30	≤0.030	≤0.030	≤0.20	≤0.30	/	x	V	/	470~640	≥255	≥21																	
	15CrMoG	0.12~0.18	0.40~0.70	0.17~0.37	0.80~1.10	0.40~0.55	/	≤0.030	≤0.030	≤0.20	≤0.30	/	x	V	/	440~640	≥235	≥21						>50	±0.8%	>3	±10%				normalizing + tempering				

GB647 9-2000	10	0.07~0.14	0.35~0.65	0.17~0.37	≤0.15	/	/	≤0.030	≤0.030	≤0.20	≤0.25	/	*	22≤D≤400	/	335~490	≥205	≥24	(Shock is limited to the following specifications D≥57mm S≥14mm)	-	14~30	±0.20	≤3	+12.5% -10%	+20 0	Normalizing	ET water pressure	ET+UT					
	20	0.17~0.24	0.35~0.65	0.17~0.37	≤0.25	/	/	≤0.030	≤0.030	≤0.20	≤0.25	/	*		/	410~550	≥245	≥21		AKu≥39	>	30~50				±0.30				Normalizing			
	16Mn	0.12~0.20	1.20~1.60	0.20~0.60	≤0.30	/	/	≤0.030	≤0.030	≤0.20	≤0.30	/	*		/	490~670	≥320	≥21		AKu≥47						±0.30				Normalizing			
	15CrMo	0.12~0.18	0.40~0.70	0.17~0.37	0.80~1.10	0.40~0.55	/	≤0.030	≤0.030	≤0.20	≤0.30	/	*		/	440~640	≥235	≥21		AKu≥47	>3	>50				±0.75%			±10%	normalizing + tempering			
GB994 8-88	10	0.07~0.14	0.35~0.65	0.17~0.37	≤0.15	/	/	≤0.035	≤0.035	≤0.25	≤0.25	/		22≤D≤400	/	330~490	≥205	≥24	(D≥57mm, S≥14mm should do impact test)	-	≤30	±0.20	≤3	+12% -10%	+20 0	Normalizing	ET or UT water pressure	ET+UT					
	20	0.17~0.24	0.35~0.65	0.17~0.37	≤0.25	/	/	≤0.035	≤0.035	≤0.25	≤0.25	/			/	410~550	≥245	≥21		AKu≥39	>	30~50				±0.30				Normalizing			
	12CrMo	0.08~0.15	0.40~0.70	0.17~0.37	0.40~0.70	0.40~0.55	/	≤0.035	≤0.035	≤0.25	≤0.30	/	*		/	410~560	≥205	≥21	HB≤156	AKu≥55						±0.30				normalizing + tempering			
	15CrMo	0.12~0.18	0.40~0.70	0.17~0.37	0.80~1.10	0.40~0.55	/	≤0.035	≤0.035	≤0.25	≤0.30	/	*		/	440~640	≥235	≥21	HB≤170	AKu≥47	>3	>50				±0.8%			±10%	normalizing + tempering			
Standard	Steel grade	chemical composition (%)											Process performance			Steel grade	Mechanics performance					Size tolerance				delivery status	Water pressure	flaw detection					
		C	Mn	Si	Cr	Mo	V	S	P	Cu	Ni	Ti	Flaring	Squashing	Bending		Rm (Mpa)	Rel (Mpa)	A (%)	Hardness	AKV J	Outer diameter	Allowable	Wall thickness	Allowable				Length (mm)	Allowable deviation			
API 5CT	30Mn2	0.27~0.33	1.20~1.50	0.17~0.37	≤0.15	/	/	≤0.030	≤0.030	≤0.25	≤0.25	/	/	J55	≥517	379~552	≥18	/	/	/	114.3	±0.79	≥114.3	+1% -0.5%	+20% -12.5%	+30 -0	Normalizing or normalizing + tempering	ET					
	37Mn5	0.34~0.39	1.25~1.50	0.20~0.35	≤0.15	/	/	≤0.030	≤0.030	≤0.25	≤0.25	/	/	J55	≥517	379~552	≥18	/	≥27	/												Normalizing + tempering	
	30Mn2	0.34~0.39	1.25~1.50	0.20~0.35	≤0.15	/	/	≤0.030	≤0.030	≤0.25	≤0.25	/	/	K55	≥655	379~552	≥14	/	≥40	/												Normalizing	
	33Mn2V	0.30~0.35	1.40~1.70	0.20~0.40	≤0.15	/	0.08~0.15	≤0.030	≤0.030	≤0.25	≤0.25	/	/	N80-1	≥689	552~758	≥14	/	≥40	/													Quenching + tempering
	33Mn2V	≤0.43	≤1.90	0.20~0.40	≤0.15	/	0.08~0.15	≤0.030	≤0.030	≤0.35	≤0.25	/	/	L80-1	≥655	552~655	≥14	HRC≤23	≥40	/													Quenching + tempering
API 5L	PSL 1	≤0.21	≤0.60	/	/	/	/	≤0.030	≤0.030	/	/	/	/	D≤60.3	A25 C	≥310	≥172	/	/	/	<60.3	+0.41 -0.79	60.3~<508	±0.75%	+15.0% -12.5%	+30 -0	normalizing + tempering	ET or UT					
		≤0.22	≤0.90	/	/	/	/	≤0.030	≤0.030	/	/	/	/	A	≥331	≥207	/	/	/												normalizing + tempering		
		≤0.28	≤1.20	/	/	/	/	≤0.030	≤0.030	/	/	/	/	B	≥414	≥241	/	/	/													Quenching + tempering	
		≤0.28	≤1.30	/	/	/	/	≤0.030	≤0.030	/	/	/	/	X42	≥414	≥290	/	/	/													Quenching + tempering	
		≤0.28	≤1.40	/	/	/	/	≤0.030	≤0.030	/	/	/	/	X52	≥455	≥359	/	/	/													Quenching + tempering	
API 5D	G-105	/	/	/	/	/	/	≤0.030	≤0.030	/	/	/	/	G105	≥793	724~931	≥16.5	21 °C 10×10×55	≥54	≤101.6	±0.79	60.3~<508	±0.75%	+15% -12.5%	+30 -0	Quenching + tempering	/	*					
≥114.3	+1% -0.5%																																

Seamless steel pipe, straight seam steel pipe, spiral steel pipe, stainless steel pipe														
Nominal diameter DN	Imperial	Outer diameter of steel pipe	thickness of pipe wall (mm) and theoretical weight (m/kg)											
			2.5	3	3.5	4	4.5	5	6	7	8	9	10	12
15	1/2"	18	0.956	1.11	1.25	1.38	1.5	1.6						
20	3/4"	25	1.39	1.63	1.86	2.07	2.28	2.47	2.81	3.11				
25	1"	32	1.76	2.15	2.46	2.76	3.05	3.33	3.85	4.32	4.47			
32	1 1/4"	38	2.19	2.59	2.98	3.35	3.72	4.07	4.74	5.35	5.95			
40	1 1/2"	45	2.62	3.11	3.58	4.04	4.49	4.93	5.77	6.56	7.3	7.99		
50	2"	57	3.36	4	4.62	5.23	5.83	6.41	7.55	8.63	9.67	10.65		
65	2 1/2"	76	4.53	5.4	6.26	7.1	7.93	8.75	10.35	11.91	13.12	14.37		
80	3"	89	5.33	6.36	7.38	8.38	9.38	10.36	12.28	14.16	15.98	17.76		
100	4"	108	6.5	7.77	9.02	10.26	11.49	12.7	15.09	17.44	19.73	21.97		
125	5"	133				12.73	14.26	15.78	18.79	21.75	24.66	27.52	30.3	35.81
150	6"	159					17.15	18.99	22.64	26.24	29.79	33.29	36.8	43.5
200	8"	219							31.52	36.6	41.63	46.61	51.5	61.26
250	10"	273							39.51	45.92	52.28	58.6	64.9	77.24
300	12"	325							47.2	54.89	62.54	70.14	77.7	92.63
350	14"	377							54.89	63.87	72.8	81.68	90.5	108
400	16"	426							62.14	72.33	82.46	92.55	103	122.5
450	18"	480									93.12	104.54	116	139.5
500	20"	530									102.98	115.62	128	154.3
600	24"	630									122.71	137.83	153	182.9

This table is the theoretical weight of commonly used steel pipes. The calculation formulas for other specifications are as follows: (outer diameter mm-wall thickness mm) * wall thickness mm*0.0246615=weight kg/m

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Composition and mechanical properties of commonly used carbon steel and alloy steel																								
steel	standard		C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	Ti	V	Nb	tensile strength (Mpa)	Yield Strength (Mpa)	Elongation %	Shrinkage %	Test temp.	Shock J	Hardness HB		
A105	ASTM A105-2011	MIN		0.10	0.60											485	250	22	30					
		MAX	0.35	0.35	1.05	0.035	0.040	0.30	0.40	0.12	0.40	0.08											187	
20#	俄标	MIN	0.17	0.17	0.35											390	195	26	55				111	
		MAX	0.24	0.37	0.65	0.035	0.040	0.25	0.30	0.30														156
20#	JB/T4726-2000	MIN	0.17	0.17	0.60											390	215	24		20°C	34		106	
		MAX	0.23	0.37	1.00	0.03	0.020	0.25	0.25	0.25			0.25			540								159
20#	NB/T47008-2010	MIN	0.17	0.15	0.60											410~560	235	24		0°C	31		110~160	
																400~550	225	24						
		MAX	0.23	0.40	1.00	0.030	0.020	0.25	0.25			0.25				380~530	205	24						
C21	VdTUV399/3:2007	MIN	0.18	0.15	0.80											485	250	20	45	20°C	31		143	
		MAX	0.23	0.35	1.35	0.035	0.030	0.30	0.40	0.12			0.40		0.030	0.020	630							185
C22.8	VdTUV350/3:2009	MIN	0.18		0.40						0.015					410	250	20		20°C	31		125	
1.0460		MAX	0.23	0.40	0.90	0.025	0.015	0.30	0.30	0.08	0.050	0.30		0.020	0.010	540							160	
20Mn	GB/T699-1999	MIN	0.17	0.17	0.70											450	275	24	50					
		MAX	0.23	0.37	1.00	0.035	0.035	0.25	0.30				0.25											
P245GH	EN10222-2:2000	MIN	0.08		0.50											410	245	23		20°C	27		125	
1.0352		MAX	0.20	0.40	1.30	0.025	0.015		0.30	0.08		0.30		0.020	0.010	530							160	

Steel	Standard	Grade	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	Ti	V	Nb	tensile strength (Mpa)	Yield Strength (Mpa)	Elongation %	Shrinkage %	Test temp.	Shock J	Hardness HB	
P280GH	EN10222-2:2000	MIN	0.08		0.90											460	280	23					
1.0426		MAX	0.20	0.40	1.50	0.025	0.015		0.30	0.08		0.30		0.020	0.01	580							
A350LF2	ASTM A350:2010	MIN		0.15	0.60											485	250	22	30	-46°C	27		
		MAX	0.30	0.30	1.35	0.035	0.040	0.30	0.40	0.12		0.40		0.030		655						197	
A350LF6	ASTM A350:2010	MIN	0.22	0.15	1.15									0.04	N 0.01	515	415	20	40				
		MAX		0.30	1.50	0.025	0.025	0.30	0.40	0.12		0.40		0.11	N 0.03	690						197	
Q235A	GB/T700-2006	MIN														375	235	26					
		MIX	0.22	0.35	1.40	0.045	0.050									500							
Q235B	GB/T700-2006	MIN														375	235	26		20°C	27		
		MIX	0.20	0.35	1.40	0.045	0.045									500							
P265GH	DIN10222-2	MIN	0.10	0.20	0.50						0.020					410	265	23				31	
		MAX	0.20	0.40	1.40	0.025	0.020	0.30	0.30	0.08		0.30	0.030	0.020		530						170	
P250GH	DIN10222-2	MIN	0.18		0.40									0.015		410	250	20				31	
1.0460		MAX	0.23	0.40	0.90	0.025	0.015	0.30	0.30	0.08	0.050	0.30		0.020	0.010	540						160	
16Mn	NB/T47008-2010	MIN	0.13	0.20	1.20											480~630	305	20				34	
																470~620	295	20		0°C			
		MAX	0.20	0.60	1.60	0.030	0.020	0.30	0.30			0.25				450~600	275	20					
Steel	standard		C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	Ti	V	Nb	tensile strength (Mpa)	Yield Strength (Mpa)	Elongation %	Shrinkage %	Test temp.	Shock J	Hardness HB	
16MnD	NB/T47009-2010	MIN	0.13	0.20	1.20											480~630	305	20		-45°C	47		
																470~620	295	20		-40°C			
		MAX	0.20	0.60	1.60	0.025	0.012	0.30	0.40			0.25			0.030	450~600	275	20					
16Mn(HIC)		MIN		0.20	1.15						O	Cep				450	275	20		-30°C	34		
		MAX	0.20	0.40	1.30	0.008	0.002		0.20		<0.004	0.43				600							
Q345A/B	GB1591-2008	MIN														470	345	20					
		MAX	0.20	0.50	1.70	0.035	0.035	0.30	0.50	0.10		0.30	0.20	0.15	0.07	630							
Q345C	GB1591-2008	MIN									0.015					470	345	20					
		MAX	0.20	0.50	1.70	0.030	0.030	0.30	0.50	0.10		0.30	0.20	0.15	0.07	630							
Q345D	GB1591-2008	MIN									0.015					470	345	21					
		MAX	0.18	0.50	1.70	0.030	0.025	0.30	0.50	0.10		0.30	0.20	0.15	0.07	630							
Q345E	GB1591-2008	MIN									0.015					470	345	21					
		MAX	0.18	0.50	1.70	0.025	0.020	0.30	0.50	0.10		0.30	0.20	0.15	0.07	630							
Q460C	GB1591-2008	MIN									0.015					550~720	≥400	≥16		0°C	34		
		MAX	0.20	0.60	1.80	0.030	0.030	0.30	0.80	0.20		0.55	0.20	0.20	0.11	530~700	≥380	≥16					
Q500D	GB1591-2008	MIN									0.015					590~750	≥450	≥17		-20°C	47		
		MAX	0.18	0.60	1.80	0.030	0.025	0.60	0.80	0.20		0.20	0.20	0.12	0.11	540~730	≥440	≥17					
Q550D	GB1591-2008	MIN									0.015					600~790	≥500	≥16		-20°C	47		
		MAX	0.18	0.60	2.00	0.030	0.025	1.00	0.80	0.30		0.80	0.20	0.12	0.11	590~780	≥490	≥16					
09Г2С	Russian standard	MIN	0.07	0.50	1.30											470	245	22	48	-60°C	30	143	
		MAX	0.12	0.80	1.70	0.040	0.040	0.30	0.30			0.30											179
ST37.2		MIN	0.10	0.15	0.50											340	235	24		20°C	27	100	
		MIX	0.17	0.25	1.40	0.045	0.045					0.30				470							140
S235JR G2	EN10250-2	MIN														340	235	24		20°C	27	100	
		MIX	0.20	0.55	1.40	0.045	0.045									470							140

A516 F60	ASTM A516-2010	MIN		0.15	0.60												415	220	25					
		MAX	0.21	0.40	0.90	0.035	0.035											550						
A516 F65	ASTM A516-2010	MIN		0.15	0.85													450	240	23				
		MAX	0.24	0.40	1.20	0.035	0.035											585						
A516 F70	ASTM A516-2010	MIN		0.15	0.85													485	260	21				
		MAX	0.27	0.40	1.20	0.035	0.035											620						
A694 F52	ASTM A694:2008	MIN		0.15														455	360	20				
		MAX	0.26	0.35	1.60	0.025	0.025																	
A694 F60	ASTM A694:2008	MIN		0.15														515	415	20				
		MAX	0.26	0.35	1.60	0.025	0.025																	
A694 F65	ASTM A694:2008	MIN		0.15														530	450	20				
		MAX	0.26	0.35	1.60	0.025	0.025																	
A694 F70	ASTM A694:2008	MIN		0.15														565	485	18				
		MAX	0.26	0.35	1.60	0.025	0.025																	
Steel	standard		C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	Ti	V	Nb	tensile strength (Mpa)	Yield Strength (Mpa)	Elongation %	Shrinkage %	Test temp.	Shock J	Hardness HB		
F11 Class2	ASTM A182-2013	MIN	0.10	0.50	0.30			1.00		0.44						485	275	20	30				156	
		MAX	0.20	1.00	0.80	0.040	0.040	1.50		0.65														207
F5	ASTM A182-2013	MIN			0.30			4.00		0.44						485	275	20	35				143	
		MAX	0.15	0.50	0.60	0.030	0.030	6.00	0.50	0.65														217
F5A	ASTM A182-2013	MIN						4.00		0.44						620	450	22	50				187	
		MAX	0.25	0.50	0.60	0.040	0.030	6.00	0.50	0.65														248
F9	ASTM A182-2013	MIN		0.50	0.30			8.00		0.90						585	380	20	40				179	
		MAX	0.15	1.00	0.60	0.030	0.030	10.00		1.10														217
F22 Class3	ASTM A182-2013	MIN	0.05		0.30			2.00		0.87						515	310	20	30				156	
		MAX	0.15	0.50	0.60	0.04	0.040	2.50		1.13														207
1Cr5Mo	NB/T47008-2010	MIN						4.00		0.45						590	390	18		20°C		47		
		MAX	0.15	0.50	0.60	0.025	0.015	6.00	0.50	0.65		0.25				760								
15CrMo	NB/T47008-2010	MIN	0.12	0.10	0.30			0.80		0.45						480~640	280	20		20°C		47		
		MAX	0.18	0.60	0.80	0.025	0.015	1.25	0.30	0.65		0.25				470~630	270	20						
12Cr1Mo	NB/T47008-2010	MIN	0.09	0.15	0.40			0.90		0.25				0.15		470~630	280	20		20°C		47		
		MAX	0.15	0.40	0.70	0.025	0.015	1.20	0.30	0.35		0.25		0.30		460~620	270	20						
09MnNiD	NB/T47009-2010	MIN	0.06	0.15	1.20				0.45							440~590	280	23		-70°C		60		
		MAX	0.12	0.35	1.60	0.020	0.010	0.30	0.85		0.05	0.25				430~580	270	23						
16Mo3 1.5415	EN10222-2:2000	MIN	0.12		0.40					0.25						440	295	23						
		MAX	0.20	0.35	0.90	0.025	0.015			0.35						570								
13CrMo 4-5 1.7335	EN10222-2:2000	MIN	0.08		0.40			0.70		0.40						440	295	20		20°C		31	156	
		MAX	0.18	0.35	1.00	0.025	0.015	1.15		0.60						590								
42CrMo	GB3077-88	MIN	0.38		0.60			0.90		0.15						800	640	13	50					
		MAX	0.45	0.40	0.90	0.035	0.035	1.20		0.30						1100								240
20MnMo	GB3077-88	MIN	0.16	0.17	0.90					0.20						530	370	18		0°C		41		
		MAX	0.22	0.37	1.20	0.030	0.035			0.30						700								

Nominal diameter	Imperial	Outer diameter		thickness of pipe wall (mm) and theoretical weight (m/kg)											
		A	B	2.5	3	3.5	4	4.5	5	6	7	8	9	10	12
15	1/2"	21.3	18	0.956	1.11	1.25	1.38	1.5	1.6						
20	3/4"	26.9	25	1.39	1.63	1.86	2.07	2.28	2.47	2.81	3.11				
25	1"	33.7	32	1.76	2.15	2.46	2.76	3.05	3.33	3.85	4.32	4.47			
32	1 1/4"	42.4	38	2.19	2.59	2.98	3.35	3.72	4.07	4.74	5.35	5.95			
40	1 1/2"	48.3	45	2.62	3.11	3.58	4.04	4.49	4.93	5.77	6.56	7.3	7.99		
50	2"	60.3	57	3.36	4	4.62	5.23	5.83	6.41	7.55	8.63	9.67	10.7		
65	2 1/2"	76.1	76	4.53	5.4	6.26	7.1	7.93	8.75	10.36	11.91	13.12	14.4		
80	3"	88.9	89	5.33	6.36	7.38	8.38	9.38	10.36	12.28	14.16	15.98	17.8		
100	4"	114.3	108	6.5	7.77	9.02	10.26	11.49	12.7	15.09	17.44	19.73	22		
125	5"	139.7	133				12.73	14.26	15.78	18.79	21.75	24.66	27.5	30.33	35.8
150	6"	168.3	159					17.15	18.99	22.64	26.24	29.79	33.3	36.75	43.5
200	8"	219.1	219							31.52	36.6	41.63	46.6	51.54	61.3
250	10"	273	273							39.51	45.92	52.28	58.6	64.86	77.2
300	12"	323.9	325							47.2	54.89	62.54	70.1	77.68	92.6
350	14"	355.4	377							54.89	63.87	72.8	81.7	90.51	108
400	16"	406.4	426							62.14	72.33	82.46	92.6	102.6	123
450	18"	457	480									93.12	105	115.9	139
500	20"	508	530									102.98	116	128.2	154
600	24"	610	630									122.71	138	152.9	183

- 1、Seamless steel pipe, welded steel pipe (straight seam pipe and spiral steel pipe), stainless steel pipe, etc.
- 2、A series is international universal series (imperial tube), B series is domestic series (metric tube)