

SEAMLESS STEEL PIPES WELD STEEL PIPES



高压容器用管 High pressure vessel pipe



化工用管 Cracking pipe



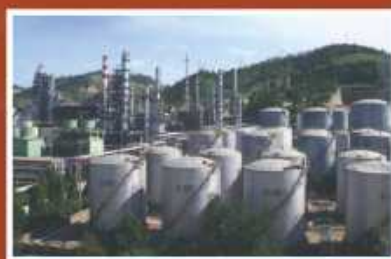
流体输送用管 Fluid seamless & welded tube



液压支架用管 Hydraulic pillar pipe



石油套管 Casing pipe



工业锅炉 (发电厂) Industry boiler

MANAF TRADING EST

ADD: SAUDI ARABIA

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SEAMLESS STEEL PIPES | NKKSMLS®





OUTSIDE DIAMETER & WALL THICKNESS STANDARD (GERMANY,USA, JAPAN)

NOMINAL PIPE SIZE		OUTSIDE DIAMETER			NOMINAL WALL THICKNESS														
A	B	ASME	JIS	DIN	JIS(1)	DIN(2)	SCH10	SCH20	SCH30	STD	SCH40	SCH60	XS	SCH80	SCH100	SCH120	SCH140	SCH160	XXS
—	1/8	10.3	—	—	—	—	1.24	—	1.45	—	1.73	—	—	2.41	—	—	—	—	—
—	1/4	13.7	—	—	—	—	1.65	—	1.85	—	2.24	—	—	3.02	—	—	—	—	—
—	3/8	17.1	—	—	—	—	1.65	—	1.85	—	2.31	—	—	3.20	—	—	—	—	—
15	1/2	21.3	21.7	21.3	2.8	2.0	2.11	—	2.41	2.77	2.77	—	3.73	3.73	—	—	—	4.78	7.47
20	3/4	26.7	27.2	26.9	2.8	2.3	2.11	—	2.41	2.87	2.87	—	3.91	3.91	—	—	—	5.56	7.82
25	1	33.4	34.0	33.7	3.2	2.6	2.77	—	2.90	3.38	3.38	—	4.55	4.55	—	—	—	6.35	9.09
32	1-1/4	42.2	42.7	42.4	3.5	2.6	2.77	—	2.97	3.56	3.56	—	4.85	4.85	—	—	—	6.35	9.70
40	1-1/2	48.3	48.6	48.3	3.5	2.6	2.77	—	3.18	3.68	3.68	—	5.08	5.08	—	—	—	7.14	10.15
50	2	60.3	60.5	60.3	3.8	2.9	2.77	—	3.18	3.91	3.91	—	5.54	5.54	—	—	—	8.74	11.07
65	2-1/2	73.0	76.3	76.1	4.2	2.9	3.05	—	4.78	5.16	5.16	—	7.01	7.01	—	—	—	9.53	14.02
80	3	88.9	89.1	88.9	4.2	3.2	3.05	—	4.78	5.49	5.49	—	7.62	7.62	—	—	—	11.13	15.24
90	3-1/2	101.6	101.6	—	4.2	—	3.05	—	4.78	5.74	5.74	—	8.08	8.08	—	—	—	—	—
100	4	114.3	114.3	114.3	4.5	3.6	3.05	—	4.78	6.02	6.02	—	8.56	8.56	—	11.13	—	13.49	17.12
125	5	141.3	139.8	139.7	4.5	4.0	3.40	—	—	6.55	6.55	—	9.53	9.53	—	12.70	—	15.88	19.05
150	6	168.3	165.2	168.3	5.0	4.5	3.40	4.5	—	7.11	7.11	—	10.97	10.97	—	14.27	—	18.26	21.95
200	8	219.1	216.3	219.1	5.8	6.3	3.76	6.35	7.04	8.18	8.18	10.31	12.70	12.70	15.09	18.26	20.62	23.01	22.23
250	10	273.0	267.4	273.0	6.6	6.3	4.19	6.35	7.80	9.27	9.27	12.70	12.70	15.09	18.26	21.44	25.40	28.58	25.40
300	12	323.8	318.5	323.9	6.9	7.1	4.57	6.35	8.38	9.53	10.31	14.27	12.70	17.48	21.44	25.40	28.58	33.32	25.40
350	14	355.6	355.6	355.6	7.9	8.0	6.35	7.92	9.53	9.53	11.13	15.09	12.70	19.05	23.83	27.79	31.75	35.71	—
400	16	406.4	406.4	406.4	7.9	8.8	6.35	7.92	9.53	9.53	12.70	16.66	12.70	21.44	26.19	30.96	36.53	40.49	—
450	18	457.2	457.2	457.0	7.9	10.0	6.35	7.92	11.13	9.53	14.27	19.05	12.70	23.83	29.36	34.93	39.67	45.24	—
500	20	508.0	508.0	508.0	7.9	11.0	6.35	9.53	12.70	9.53	15.09	20.62	12.70	26.19	32.54	38.10	44.45	50.01	—
550	22	558.8	558.8	—	—	—	6.35	9.53	12.70	9.53	—	22.23	12.70	28.58	34.93	41.28	47.63	53.98	—
600	24	609.6	609.6	610.0	—	12.5	6.35	9.53	14.27	9.53	17.48	24.61	12.70	30.96	38.89	46.02	52.37	59.54	—
650	26	660.4	660.4	—	—	—	7.92	12.70	—	9.53	—	—	12.70	—	—	—	—	—	—
700	28	711.2	711.2	711.0	—	12.5	7.92	12.70	15.88	9.53	—	—	12.70	—	—	—	—	—	—
750	30	762.0	762.0	—	—	—	7.92	12.70	15.88	9.53	—	—	12.70	—	—	—	—	—	—
800	32	812.8	812.8	813.0	—	12.5	7.92	12.70	15.88	9.53	17.48	—	12.70	—	JIS G3452 ASME B36.10M JIS G3454 DIN2448 JIS G3455 DIN2458 JIS G3457				—
850	34	863.6	863.6	—	—	—	7.92	12.70	15.88	9.53	17.48	—	12.70	—					—
900	36	914.4	914.4	914.0	—	12.5	7.92	12.70	15.88	9.53	19.05	—	12.70	—					—
950	38	965.2	965.2	—	—	—	—	—	—	9.53	—	—	12.70	—					—
1000	40	1016.0	1016.0	1016.0	—	12.5	—	—	—	9.53	—	—	12.70	—					—
1050	42	1066.8	1066.8	—	—	—	—	—	—	9.53	—	—	12.70	—					—
1100	44	1117.6	1117.6	—	—	—	—	—	—	9.53	—	—	12.70	—					—
1150	46	1168.4	1168.4	—	—	—	—	—	—	9.53	—	—	12.70	—					—
1200	48	1219.2	1219.2	1220.0	—	—	—	—	—	9.53	—	—	12.70	—					—



MATERIAL CHEMICAL COMPOENTS AND MECHANICAL PROPERTY API 5L PSL1:

CLASS AND SORT	CHEMICAL COMPONENTS				MECHANICAL PROPERTY			
	C(MAX.)	Mn(MAX.)	P (MAX.)	S (MAX.)	TENSILE STRENGTH(MIN.)		YIELD STRENGTH(MIN.)	
					psi	MPa	psi	MPa
A25	0.21	0.60	0.030	0.030	45000	310	25000	172
A25P	0.21	0.60	0.045–0.080	0.030				
A	0.22	0.90	0.030	0.030	48000	331	30000	207
B	0.28	1.20	0.030	0.030	60000	414	35000	241
X42	0.28	1.30	0.030	0.030	60000	414	42000	290
X46	0.28	1.40	0.030	0.030	63000	434	46000	317
X52	0.28	1.40	0.030	0.030	66000	455	52000	359
X56	0.28	1.40	0.030	0.030	71000	490	56000	386
X60	0.28	1.40	0.030	0.030	75000	517	60000	414
X65	0.28	1.40	0.030	0.030	77000	531	65000	448
X70	0.28	1.40	0.030	0.030	82000	565	70000	483

A53

STAN- DARD	TRADE MARK	CHEMICAL COMPONENTS										MECHANICAL PROPERTY		
		C	Si	Mn	P	S	Cu	Ni	Mo	Cr	V	TENSILE STRENGTH (MPa)	YIELD STRENGTH (MPa)	ELONGATION (%)
ASTM	A	≤ 0.25	/	≤ 0.95	≤ 0.05	≤ 0.045	≤ 0.40	≤ 0.40	≤ 0.15	≤ 0.40	≤ 0.08	≥ 330	≥ 205	≥ 29.5
A53	B	≤ 0.30	/	≤ 1.2	≤ 0.05	≤ 0.045	≤ 0.40	≤ 0.40	≤ 0.15	≤ 0.40	≤ 0.08	≥ 415	≥ 240	≥ 29.5

A106

STAN- DARD	TRADE MARK	CHEMICAL COMPONENTS										MECHANICAL PROPERTY		
		C	Si	Mn	P / S	Cu	Ni	Mo	Cr	V		TENSILE STRENGTH (MPa)	YIELD STRENGTH (MPa)	ELONGATION (%)
ASTM	B	≤ 0.30	≥ 0.10	0.29–1.06	≤ 0.035	≤ 0.40	≤ 0.40	≤ 0.15	≤ 0.40	≤ 0.08		≥ 415	≥ 240	≥ 30
A106	C	≤ 0.35	≥ 0.10	0.29–1.06	≤ 0.035	≤ 0.40	≤ 0.40	≤ 0.15	≤ 0.40	≤ 0.08		≥ 485	≥ 275	≥ 30

A179

STAN- DARD	TRADE MARK	CHEMICAL COMPONENTS										MECHANICAL PROPERTY		
		C	Si	Mn	P / S	Cu	Ni	Mo	Cr	V		TENSILE STRENGTH (MPa)	YIELD STRENGTH (MPa)	ELONGATION (%)
ASTM A179	A179	0.06– 0.18	/	0.27–0.63	≤ 0.035	/	/	/	/	/		≥ 325	≥ 180	≥ 35



A192

STANDARD	TRADE MARK	CHEMICAL COMPONENTS							MECHANICAL PROPERTY		
		C	Si	Mn	P / S	Cu	Ni	Mo	TENSILE STRENGTH (MPa)	YIELD STRENGTH (MPa)	ELONGATION (%)
ASTM A192	A192	0.06–0.18	≤ 0.25	0.27–0.63	≤ 0.035	/	/	/	≥ 325	≥ 180	≥ 35

370

STANDARD	TRADE MARK	CHEMICAL COMPONENTS					MECHANICAL PROPERTY		
		C	Si	Mn	P	S	TENSILE STRENGTH (MPa)	YIELD STRENGTH (MPa)	ELONGATION (%)
ASTM 370	STPG 370	≤ 0.25	≤ 0.35	0.30–0.90	≤ 0.040	≤ 0.040	≥ 370	≥ 215	30
	STS 370	≤ 0.25	0.10–0.35	0.30–1.10	≤ 0.035	≤ 0.035	≥ 370	≥ 215	30
	STPT 370	≤ 0.25	0.10–0.35	0.30–0.90	≤ 0.035	≤ 0.035	≥ 370	≥ 215	30

A213

STANDARD	TRADE MARK	CHEMICAL COMPONENTS									MECHANICAL PROPERTY		
		C	Si	Mn	P / S	Cu	Ni	Mo	Cr	V	TENSILE STRENGTH (MPa)	YIELD STRENGTH (MPa)	ELONGATION (%)
ASTM	A213T11	0.05–0.15	0.50–1.00	0.30–0.60	≤ 0.025	/	/	0.44–0.65	1.0–1.5	/	≥ 415	≥ 170	≥ 30
A213	A213T12	0.05–0.15	≤ 0.50	0.30–0.60	≤ 0.025	/	/	0.44–0.65	0.80–1.25	/	≥ 415	≥ 220	≥ 30
	A213T22	0.05–0.15	≤ 0.50	0.30–0.60	≤ 0.025	/	/	0.87–1.13	1.90–2.60	/	≥ 415	≥ 205	≥ 30

A210

STANDARD	TRADE MARK	CHEMICAL COMPONENTS									MECHANICAL PROPERTY		
		C	Si	Mn	P / S	Cu	Ni	Mo	Cr	V	TENSILE STRENGTH (MPa)	YIELD STRENGTH (MPa)	ELONGATION (%)
ASTM	A210A1	≤ 0.27	≥ 0.10	≤ 0.93	≤ 0.35	/	/	/	/	/	≥ 415	≥ 255	≥ 30
A210	A210C	≤ 0.35	≥ 0.10	0.29–1.06	≤ 0.35	/	/	/	/	/	≥ 485	≥ 275	≥ 30



API 5L TOLERANCES FOR DIAMETER AND WALL THICKNESS

TOLERANCE ^a (PERCENT OF SPECIFIED WALL THICKNESS)			
SIZE	TYPE OF PIPE	GRADE B OR LOWER	GRADE X 42 OR HIGHER
≤2-7/8	ALL	+20.0, -12.5	+15.0, -12.5
>2-7/8 & <20	ALL	+15.0, -12.5	+15.0, -12.5
≥ 20	WELDED	+17.5, -12.5	+19.5, -8.0
≥ 20	SEAMLESS	+15.0, -12.5	+17.5, -10.0

^a WHERE NEGATIVE TOLERANCES SMALLER THAN THOSE LISTED ARE SPECIFIED BY THE PURCHASER. THE POSITIVE TOLERANCE SHALL BE INCREASED TO THE APPLICABLE TOTAL TOLERANCE RANGE IN PERCENT LESS THE WALL THICKNESS NEGATIVE TOLERANCE.

TOLERANCES FOR DIAMETER AT PIPE ENDS

OUT-OF-ROUNDNESS					
SIZE	MINUS TOLERANCE	PLUS TOLERANCE	END TO END TOLERANCE	DIAMETER AXIS TOLERANCE (PERCENT OF SPECIFIED OD) ^a	MAX. DIFFERENTIAL BETWEEN MIN. & MAX. DIAMETERS/APPLIES ONLY TO PIPE WITH D/T ≤ 75
≤10-3/4	1/64 (0.4MM)	1/16 (1.6MM)	—	—	—
> 10-3/4 & ≤20	1/32 (0.8MM)	3/32 (2.4MM)	—	—	—
>20 & ≤42	1/32 (0.8MM)	3/32 (2.4MM)	b	± 1%	≤ 0.500IN. (12.7MM)
> 42	1/32 (0.8MM)	3/32 (2.4MM)	b	± 1%	≤ 0.625IN. (15.9MM)

^aOUT-OF-ROUNDNESS TOLERANCES APPLY TO MAXIMUM AND MINIMUM DIAMETERS AS MEASURED WITH A BAR GAGE, CALIPER, OR DEVICE MEASURING ACTUAL MAXIMUM AND MINIMUM DIAMETERS.

^bTHE AVERAGE DIAMETER (AS MEASURED WITH A DIAMETER TAPE) OF ONE END OF PIPE SHALL NOT DIFFER BY MORE THAN 3/32 IN. (2.4MM) FROM THAT OF THE OTHER END.

ASTM A106 OUTSIDE DIAMETER & WALL THICKNESS TOLERANCE

NPS(DN) DESIGNATOR	PERMISSIBLE VARIATION IN OUTSIDE DIAMETER
1/8" TO 1-1/2" (6 ~ 40)	± 1/64IN (± 0.4MM)
1-1/2" <NPS ≤ 4" (40 ~ 100)	± 1/32IN (0.8MM)
4" <NPS ≤ 8" (100 ~ 200)	-1/32IN - + 1/16IN (-0.8MM - + 1.6MM)
8" <NPS ≤ 18" (200 ~ 450)	-1/32IN - + 3/32IN (-0.8MM - + 2.4MM)
18" <NPS ≤ 26" (450 ~ 650)	-1/32IN - + 1/8IN (-0.8MM - + 3.2MM)
26" <NPS ≤ 34" (650 ~ 850)	-1/32IN - + 5/32IN (-0.8MM - + 4MM)
34" <NPS ≤ 48" (850 ~ 1200)	-1/32IN - + 3/16IN (-0.8MM - + 4.8MM)
WALL THICKNESS TOLERANCE	ALL POINTS SHOULD BE ≥ - 12.5% THE SPECIFIED WALL THICKNESS

ASTM A53 TOLERANCES FOR DIAMETER AND WALL THICKNESS

NPS(DN) DESIGNATOR	PERMISSIBLE VARIATION IN OUTSIDE DIAMETER
≤1-1/2 (DN 40)	± 1/64IN (± 0.4MM)
≥2 (DN 50)	± 1%
WALL THICKNESS TOLERANCE	ALL POINTS SHOULD BE ≥ -12.5% THE SPECIFIED WALL THICKNESS



WELDED STEEL PIPES



WELDED STEEL PIPES (GALVANIZED & BLACK)





WELDED STEEL PIPES (GALVANIZED & BLACK)

BS 1387/1985

NOMINAL SIZE		WALL THICKNESS (MM)					OUTSIDE DIAMETER(MM)								WEIGHT OF PLAIN ENDS (KG/M)				THREAD	
							MAX.				MIN.									
INCH	MM	A-1	A	B	C	A-1	A	B	C	A-1	A	B	C	A-1	A	B	C	NUMBER OF THREADS PER INCH	THREADS LENGTH	
1/2	15	1.8	2.0	2.6	3.2	21.3	21.4	21.7	21.7	21.0	21.0	21.1	21.1	0.86	0.95	1.21	1.44	14	11.4-15.0	
3/4	20	1.8	2.3	2.6	3.2	26.9	26.9	27.2	27.2	26.4	26.4	26.6	26.6	1.11	1.38	1.56	1.87	14	12.7-16.3	
1	25	2.0	2.6	3.2	4.0	33.7	33.8	34.2	34.2	33.2	33.2	33.4	33.4	1.55	1.98	2.41	2.94	11	14.5-19.1	
1 1/4	32	2.3	2.6	3.2	4.0	42.4	42.5	42.9	42.9	41.9	41.9	42.1	42.1	2.26	2.54	3.10	3.80	11	16.8-21.4	
1 1/2	40	2.3	2.9	3.2	4.0	48.3	48.4	48.8	48.8	47.8	47.8	48.0	48.0	2.60	3.23	3.57	4.38	11	16.8-21.4	
2	50	2.3	2.9	3.6	4.5	60.2	60.2	60.8	60.8	59.6	59.6	59.8	59.8	3.27	4.08	5.03	6.19	11	21.1-25.7	
2 1/2	65	2.6	3.2	3.6	4.5	76.0	76.0	76.6	76.6	75.2	75.2	75.4	75.4	4.68	5.71	6.43	7.93	11	23.2-30.2	
3	80	2.9	3.2	4.0	5.0	88.7	88.7	89.5	89.5	87.9	87.9	88.1	88.1	6.11	6.72	8.37	10.30	11	26.3-33.3	
4	100	2.9	3.6	4.5	5.4	113.9	113.9	114.9	114.9	113.0	113.0	113.3	113.3	7.91	9.75	12.10	14.50	11	32.3-39.3	
5	125	-	-	5.0	5.4	-	-	140.6	140.6	-	-	138.7	138.7	-	-	16.60	17.90	11	36.6-43.6	
6	150	-	-	5.0	5.4	-	-	166.1	166.1	-	-	164.1	164.1	-	-	19.70	21.30	11	36.6-43.6	

REMARKS.

- 1)THE WEIGHT OF THE GALVANIZED PIPES(A-1,A CLASS) IS CALCULATED AT ABOUT 5% HIGHER THAN THAT OF THE BLACK PIPES.
- 2)THE WEIGHT OF THE GALVANIZED PIPES(B,C CLASS) IS CALCULATED AT ABOUT 5% HIGHER THAN THAT OF THE BLACK PIPES.
- 3)WALL THICKNESS OF A-1 CLASS AND A CLASS:-8%+NOT LIMITED.
- 4)WALL THICKNESS OF B CLASS AND C CLASS:-10% +NOT LIMITED.



WELDED STEEL PIPES 焊缝管

EN10219-2:1997

OUTSIDE DIAMETER	THICKNESS	THEORETICAL WEIGHT
MM	MM	KG/M
21.3	2.00	0.95
21.3	2.50	1.16
21.3	3.00	1.35
26.9	2.00	1.23
26.9	2.50	1.50
26.9	3.00	1.77
33.7	2.00	1.56
33.7	2.50	1.92
33.7	3.00	2.27
42.4	2.00	1.99
42.4	2.50	2.46
42.4	3.00	2.91
48.3	2.00	2.28
48.3	2.50	2.82
48.3	3.00	3.35
60.3	2.50	3.56
60.3	3.00	4.24
60.3	4.00	5.55
76.1	2.50	4.54
76.1	3.00	5.41
76.1	4.00	7.11
88.9	3.00	6.36
88.9	4.00	8.38
88.9	5.00	10.30
101.6	3.00	7.29
101.6	4.00	9.63
101.6	5.00	11.90
114.3	3.00	8.23
114.3	4.00	10.90
114.3	5.00	13.50
139.7	4.00	13.40
139.7	5.00	16.60
139.7	6.00	19.80
139.7	6.30	20.70
168.3	4.00	16.20
168.3	5.00	20.10
168.3	6.00	24.00
168.3	6.30	25.20
168.3	8.00	31.60

OUTSIDE DIAMETER	THICKNESS	THEORETICAL WEIGHT
MM	MM	KG/M
177.8	5.00	21.30
177.8	6.00	25.40
177.8	8.00	33.50
193.7	5.00	23.30
193.7	6.00	27.80
193.7	8.00	36.60
193.7	10.00	45.30
193.7	12.00	53.80
219.1	5.00	26.40
219.1	6.00	31.50
219.1	6.30	33.10
219.1	8.00	41.60
219.1	10.00	51.60
219.1	12.00	61.30
244.5	6.00	35.30
244.5	6.30	37.00
244.5	8.00	46.70
244.5	10.00	57.80
244.5	12.00	68.80
273.0	6.00	39.50
273.0	6.30	41.40
273.0	8.00	52.30
273.0	10.00	64.90
273.0	12.00	77.20
273.0	12.50	80.30
323.9	6.00	47.00
323.9	6.30	49.30
323.9	8.00	62.30
323.9	10.00	77.40
323.9	12.00	92.30
323.9	12.50	96.00
355.6	8.00	68.60
355.6	10.00	85.20
355.6	12.00	102.00
355.6	12.50	106.00
406.4	8.00	78.60
406.4	10.00	97.80
406.4	12.00	117.00
406.4	12.50	121.00



TUBING AND CASING PIPE

石油套管（圆螺纹、偏梯形螺纹和直连型套管尺寸和重量）

STANDARD:标准

API SPEC 5CT, API SPEC 5B, ISO 11960

APPLICATION:用途

Tubing is used to extracting petroleum and natural gas from a well.

Casing serves as walls of well.



Available Size of Casing

SIZE 代号		OUTSIDE DIA. 外径	THEORETIC WEIGHT OF PIPE & COUPLING 带螺纹和 接箍名义 重量	WALL THICKNESS 壁厚	INSIDE DIA. 内径	MIN. DIA 通径 直径	PLAIN PIPE WEIGHT 平端 重量	CALCULATED WEIGHT 计算重量					
								MORE OR LESS WEIGHT AFTER MACHINING AT BOTH END 因端部加工而增减的重量					
								KG					
								ROUND THR. 圆螺纹		BTC 偏梯形螺纹		XC 直连型	
1	2	D mm	kg/m	t mm	d mm	mm	kg/m	STC 短	LTC 长	STD 标准	SPECIAL 特殊间隙	STD 标准	CHOICE 选用
1	2	3	4	5	6	7	8	9	10	11	12	13	14
4 1/2	10.50	114.30	15.63	5.69	102.92	99.74	15.24	1.72	—	2.27	1.16	—	—
4 1/2	11.60	114.30	17.26	6.35	101.60	98.42	16.91	1.54	1.72	2.09	0.98	—	—
4 1/2	13.50	114.30	20.09	7.37	99.56	96.38	19.44	—	1.45	1.81	0.71	—	—
4 1/2	15.10	114.30	22.47	8.56	97.18	94.00	22.32	—	1.27	1.45	0.34	—	—
5	13.00	127.00	19.35	6.43	114.14	110.96	19.12	2.18	2.63	2.99	1.10	—	—
5	15.00	127.00	22.32	7.52	111.96	108.78	22.16	1.91	2.30	2.63	0.73	2.09	—
5	18.00	127.00	26.79	9.19	108.62	105.44	26.70	—	1.91	2.00	0.10	0.64	—
5	21.40	127.00	31.85	11.10	104.80	101.62	31.73	—	1.34	1.12	-0.78	—	—
5	23.20	127.00	34.53	12.14	102.72	99.54	34.30	—	1.04	0.93	-0.95	—	—
5	24.10	127.00	35.86	12.70	101.60	98.42	35.80	—	0.88	0.56	-1.36	—	—
7	23.00	177.80	34.23	8.05	161.70	158.75	33.70	3.63	4.72	4.99	0.73	2.72	1.91
7	23.00	177.80	34.23	8.05	161.70	158.52	33.70	3.63	4.72	4.99	0.73	2.72	1.91
7	26.00	177.80	38.69	9.19	159.42	156.24	38.21	3.27	4.26	4.35	0.09	1.27	0.45
7	29.00	177.80	43.16	10.36	157.08	153.90	42.78	—	3.63	3.72	-0.54	0.27	-0.54
7	32.00	177.80	47.62	11.51	154.78	152.40	47.20	—	2.99	3.08	-1.18	-0.27	-1.09
7	32.00	177.80	47.62	11.51	154.78	151.60	47.20	—	2.99	3.08	-1.18	-0.27	-1.09
7	35.00	177.80	52.09	12.65	152.50	149.32	51.52	—	2.54	2.54	-1.72	0.45	-0.82
7	38.00	177.80	56.55	13.72	150.36	147.18	55.52	—	2.00	1.91	-2.36	-0.09	-1.36
7 5/8	24.00	193.68	35.72	7.62	178.44	175.26	34.96	7.17	—	—	—	—	—
7 5/8	26.40	193.68	39.29	8.33	177.02	173.84	38.08	6.89	8.62	9.34	2.82	2.90	1.11
7 5/8	29.70	193.68	44.20	9.52	174.64	171.46	43.24	—	7.89	8.53	2.00	1.18	0.09
7 5/8	33.70	193.68	50.15	10.92	171.84	168.66	49.22	—	7.17	7.71	1.18	0.00	-1.09
7 5/8	39.00	193.68	58.04	12.70	168.28	165.10	56.68	—	6.17	6.62	0.10	-1.00	-2.09
7 5/8	42.80	193.68	63.69	14.27	165.14	161.96	63.14	—	5.45	5.17	-1.37	—	—
7 5/8	45.30	193.68	67.41	15.11	163.46	160.28	66.54	—	5.01	5.01	-1.52	—	—
7 5/8	47.10	193.68	70.09	15.88	161.92	158.74	69.63	—	4.61	4.19	-2.35	—	—



PETROLEUM CASING

石油套管（圆螺纹、偏梯形螺纹和直连型套管尺寸和重量）

API SPEC 5CT

SIZE 代号		OUTSIDE DIA. 外径	THEORETICAL WEIGHT OF PIPE & COUPLING 带螺纹和 接箍名义 重量	WALL THICKNESS 壁厚	INSIDE DIA. 内径	MIN. DIA 通径 直径	PLAIN PIPE WEIGHT 平端 重量	CALCULATED WEIGHT 计算重量					
								MORE OR LESS WEIGHT AFTER MACHINING AT BOTH END 因端部加工而增减的重量 KG					
								ROUND THR. 圆螺纹		BTC 偏梯形螺纹		XC 直连型	
1	2	D mm	kg/m	t mm	d mm	mm	kg/m	STC 短	LTC 长	STD 标准	SPECIAL 特殊间隙	STD 标准	CHOICE 选用
1	2	3	4	5	6	7	8	9	10	11	12	13	14
8 5/8	24.00	219.08	35.72	6.71	205.66	202.48	35.14	10.70	-	-	-	-	-
8 5/8	28.00	219.08	41.67	7.72	203.64	200.46	40.24	10.07	-	-	-	-	-
8 5/8	32.00	219.08	47.62	8.94	201.20	200.02	46.33	9.43	12.52	12.79	2.74	5.99	3.99
8 5/8	32.00	219.08	47.62	8.94	201.20	198.02	46.33	9.43	12.52	12.79	2.74	5.99	3.99
8 5/8	36.00	219.08	53.57	10.16	198.76	195.58	52.35	8.80	11.61	11.88	1.83	3.45	1.91
8 5/8	40.00	219.08	59.53	11.43	196.22	193.68	58.53	-	10.80	10.98	0.92	1.81	0.27
8 5/8	40.00	219.08	59.53	11.43	196.22	193.04	58.53	-	10.80	10.98	0.92	1.81	0.27
8 5/8	44.00	219.08	65.48	12.70	193.68	190.50	64.64	-	9.89	10.07	0.01	-0.73	-0.82
8 5/8	49.00	219.08	72.92	14.15	190.78	187.60	71.51	-	8.89	8.98	-1.08	-0.36	-1.91
9 5/8	32.30	244.48	48.07	7.92	228.60	224.66	46.20	11.07	-	-	-	-	-
9 5/8	36.00	244.48	53.57	8.94	226.60	222.63	51.93	10.43	14.51	14.06	2.94	-	-
9 5/8	40.00	244.48	59.53	10.03	224.40	222.25	57.99	9.71	13.61	13.15	2.03	4.81	3.27
9 5/8	40.00	244.48	59.53	10.03	224.40	220.45	57.99	9.71	13.61	13.15	2.03	4.81	3.27
9 5/8	43.50	244.48	64.74	11.05	222.40	218.41	63.61	-	12.79	12.34	1.22	2.45	0.91
9 5/8	47.00	244.48	69.94	11.99	220.50	216.54	68.75	-	12.07	11.61	0.49	1.00	-0.54
9 5/8	53.50	244.48	79.62	13.84	216.80	215.90	78.72	-	10.61	10.16	-0.96	-0.54	-2.09
9 5/8	53.50	244.48	79.62	13.84	216.80	212.83	78.72	-	10.61	10.16	-0.96	-0.54	-2.09
10 3/4	32.75	273.05	48.74	7.09	258.90	254.91	46.50	13.15	-	-	-	-	-
10 3/4	40.50	273.05	60.27	8.89	255.30	251.31	57.91	11.97	-	15.60	3.27	-	-
10 3/4	45.50	273.05	67.71	10.16	252.70	250.82	65.87	11.07	-	14.42	2.09	9.62	-
10 3/4	45.50	273.05	67.71	10.16	252.70	248.77	65.87	11.07	-	14.42	2.09	9.62	-
10 3/4	51.00	273.05	75.90	11.43	250.20	246.23	73.75	10.25	-	13.34	1.00	8.35	-
10 3/4	55.50	273.05	82.59	12.57	247.90	244.48	80.75	9.43	-	12.25	-0.09	7.17	-
10 3/4	55.50	273.05	82.59	12.57	247.90	243.94	80.75	9.43	-	12.25	-0.09	7.17	-
11 3/4	42.00	298.45	62.50	8.46	281.50	277.50	62.56	13.43	-	-	-	-	-
11 3/4	47.00	298.45	69.94	9.52	279.41	275.44	67.83	12.52	-	16.24	-	-	-
11 3/4	54.00	298.45	80.36	11.05	276.40	272.39	78.32	11.34	-	14.70	-	-	-
11 3/4	60.00	298.45	89.29	12.42	273.60	269.88	87.61	10.25	-	13.43	-	-	-
11 3/4	60.00	298.45	89.29	12.42	273.60	269.65	87.61	10.25	-	13.43	-	-	-
13 3/8	54.50	339.72	81.10	9.65	320.42	316.45	78.55	13.97	-	18.23	-	-	-
13 3/8	61.00	339.72	90.78	10.92	317.88	313.91	88.55	12.88	-	16.69	-	-	-
13 3/8	68.00	339.72	101.19	12.19	315.34	311.37	98.46	11.70	-	15.24	-	-	-
13 3/8	72.00	339.72	107.15	13.06	313.60	311.15	105.21	10.98	-	14.33	-	-	-
16	65.00	406.40	96.73	9.53	387.40	382.57	96.73	19.32	-	-	-	-	-
16	75.00	406.40	111.61	11.13	384.10	379.37	108.49	17.33	-	20.68	-	-	-
16	84.00	406.40	125.01	12.57	381.30	376.48	122.09	15.51	-	17.96	-	-	-
16	109.00	406.40	162.21	16.66	373.10	368.30	160.13	-	-	-	-	-	-