PRODUCT **CATALOG**

AJ STEEL

الإمـــارات
THE EMIRATES

INDEX

PAGES

04 ..... About us
05-08 ..... chemical and mechanical composition of standards
09-13 ..... Dimensions and weights of standards
14 ..... process flow
15-20 ..... product range chart
21-23 ..... API mechanical and chemical composition
24-30 ..... API dimensions and weights
32 ..... Applications
33 ..... certificates
34 ..... API Specification Q1
35 ..... API 5CT
35 ..... API 5L
36 ..... ISO 9001
36 ..... CE EN 10255
37 ..... CE EN 10210
38 ..... CE EN 10219
39 ..... ISO 45001
39 ..... ISO 14001
40 ..... PED 10217
41 ..... Civil Defense Certificate
42 ..... FM Certificates
43 ..... UL Certificates
44 ..... OSHAD Certificate
44 ..... Ministry of Energy and Industry Certificate

about us

AJ Steel, manufacturer of Tubes and Pipes is strategically located with its two manufacturing units out of Abu Dhabi, UAE to cater to the global demand of ERW steel pipes and tubes. Within a short span of its establishment since 2006, it has grown to become a Global Brand in its segment.

With Quality, Service and Improvement being its principal motto, AJ Steel has grown together with its customers as partners in their success.

Our ERW pipe range is from 1/2" to 20" NB pipes confirming to International standards with an annual capacity of 360,000 MT.

Spec.	Size	Grade / Series	Chemical composition (max)													
			C %	Mn %	P %	S%	Si%	Cu%	Cr%	Ni%	V%	Nb%	N%	Al%*	Ti%	CEV%
ASTM A53	½"- 20"	A	0.25	0.95	0.050	0.045	-	0.40	0.40	0.40	0.08	-	-	-	-	-
		B	0.30	1.20	0.050	0.045	-	0.40	0.40	0.40	0.08	-	-	-	-	-
ASTM A795	½"- 10"	A	0.25	0.95	0.035	0.035	-	-	-	-	-	-	-	-	-	-
		B	0.30	1.20	0.035	0.035	-	-	-	-	-	-	-	-	-	-
ASTM A500	½"- 20"	A	0.30	1.40	0.045	0.045	-	0.18*	-	-	-	-	-	-	-	-
		B	0.30	1.40	0.045	0.045	-	0.18*	-	-	-	-	-	-	-	-
		C	0.30	1.40	0.045	0.045	-	0.18*	-	-	-	-	-	-	-	-
		D	0.27	1.40	0.045	0.045	-	0.18*	-	-	-	-	-	-	-	-
ASTM A252	6"- 20"	Gr.1	-	-	0.05	-	-	-	-	-	-	-	-	-	-	-
		Gr.2	-	-	0.05	-	-	-	-	-	-	-	-	-	-	-
		Gr.3	-	-	0.05	-	-	-	-	-	-	-	-	-	-	-
EN 10219	½"-20"	S235JRH	0.17	1.40	0.040	0.04	-	-	-	-	-	-	-	0.009*	-	0.35
		S275JOH	0.20	1.50	0.035	0.035	-	-	-	-	-	-	-	0.009*	-	0.40
		S275J2H	0.20	1.50	0.030	0.030	-	-	-	-	-	-	-	-	-	0.40
		S355JOH	0.22	1.60	0.035	0.035	0.55	-	-	-	-	-	-	-	-	0.45
		S355J2H	0.22	1.60	0.030	0.030	0.55	-	-	-	-	-	-	-	-	0.45
		S355K2H	0.22	1.60	0.030	0.030	0.55	-	-	-	-	-	-	-	-	0.45
		S275NH	0.20	0.50-1.40	0.035	0.030	0.40	0.35	0.30	0.30	0.05	0.05	0.015	0.020*	0.03	0.40
		S275NLH	0.20	0.50-1.40	0.030	0.025	0.40	0.35	0.30	0.30	0.05	0.05	0.015	0.020*	0.03	0.40
		S355NH	0.20	0.90-1.65	0.035	0.030	0.50	0.35	0.30	0.50	0.12	0.05	0.015	0.020*	0.03	0.43
		S355NLH	0.18	0.90-1.65	0.030	0.025	0.50	0.35	0.30	0.50	0.12	0.05	0.015	0.020*	0.03	0.43
		S460NH	0.20	1.00-1.70	0.035	0.030	0.60	0.70	0.30	0.80	0.20	0.05	0.025	0.020*	0.03	0.53
		S460NLH	0.2	1.00-1.70	0.030	0.025	0.60	0.70	0.30	0.80	0.20	0.05	0.025	0.020*	0.03	0.53
		S275MH	0.13	1.50	0.035	0.030	0.50	-	-	0.30	0.08	0.05	0.02	0.020*	0.05	0.34
		S275MLH	0.13	1.50	0.030	0.025	0.50	-	-	0.30	0.08	0.05	0.02	0.020*	0.05	0.34
		S355MH	0.14	1.50	0.035	0.030	0.50	-	-	0.30	0.10	0.05	0.02	0.020*	0.05	0.39
		S355MLH	0.14	1.50	0.030	0.025	0.50	-	-	0.30	0.10	0.05	0.02	0.020*	0.05	0.39
		S420MH	0.16	1.70	0.035	0.030	0.50	-	-	0.50	0.12	0.05	0.02	0.020*	0.05	0.43
		S420MLH	0.16	1.70	0.030	0.025	0.50	-	-	0.50	0.12	0.05	0.02	0.020*	0.05	0.43
		S460MH	0.16	1.70	0.035	0.030	0.60	-	-	0.80	0.12	0.05	0.025	0.020*	0.05	0.46
		S460MLH	0.16	1.70	0.030	0.025	0.60	-	-	0.80	0.12	0.05	0.025	0.020*	0.05	0.46

Spec.	Size	Grade / Series	Chemical composition (max)													
			C %	Mn %	P %	S%	Si%	Cu%	Cr%	Ni%	V%	Nb%	N%	Al%*	Ti%	CEV%
EN 10217	½"-20"	P195 TR1e	0.13	0.70	0.025	0.020	0.35	0.30	0.30	0.30	0.02	0.010	-	--	0.04	-
		P195 TR2e	0.13	0.70	0.025	0.020	0.35	0.30	0.30	0.30	0.02	0.010	-	0.02d	0.04	-
		P235 TR1e	0.16	1.20	0.025	0.020	0.35	0.30	0.30	0.30	0.02	0.010	-	--	0.04	-
		P235 TR2e	0.16	1.20	0.025	0.020	0.35	0.30	0.30	0.30	0.02	0.010	-	0.02d	0.04	-
		P265 TR1e	0.20	1.40	0.025	0.020	0.4	0.30	0.30	0.30	0.02	0.010	-	--	0.04	-
		P265 TR2e	0.20	1.40	0.025	0.020	0.4	0.30	0.30	0.30	0.02	0.010	-	0.02d	0.04	-
EN 10210	½"-20"	S235JRH	0.17	1.40	0.040	0.040	-	-	-	-	-	-	0.009	-	-	0.37
		S275J0H	0.20	1.50	0.035	0.035	-	-	-	-	-	-	0.009	-	-	0.41
		S275J2H	0.20	1.50	0.030	0.030	-	-	-	-	-	-	-	-	-	0.41
		S355J0H	0.22	1.60	0.035	0.035	0.55	-	-	-	-	-	0.009	-	-	0.45
		S355J2H	0.22	1.60	0.030	0.030	0.55	-	-	-	-	-	-	-	-	0.45
		S355K2H	0.22	1.60	0.030	0.030	0.55	-	-	-	-	-	-	-	-	0.45
		S275NH	0.20	0.50-1.40	0.035	0.030	0.40	0.35	0.30	0.30	0.05	0.05	0.015	0.020*	0.03	0.40
		S275NLH	0.20	0.50-1.40	0.030	0.025	0.40	0.35	0.30	0.30	0.05	0.05	0.015	0.020*	0.03	0.40
		S355NH	0.20	0.90-1.65	0.035	0.030	0.50	0.35	0.30	0.50	0.12	0.05	0.020	0.020*	0.03	0.45
		S355NLH	0.18	0.90-1.65	0.030	0.025	0.50	0.35	0.30	0.50	0.12	0.05	0.020	0.020*	0.03	0.45
		S420NH	0.22	1.60	0.030	0.030	0.60	0.70	0.30	0.80	0.20	0.05	0.025	0.020*	0.03	0.52
		S420NLH	0.22	1.60	0.030	0.030	0.60	0.70	0.30	0.80	0.20	0.05	0.025	0.020*	0.03	0.52
		S460NH	0.20	1.00-1.70	0.035	0.030	0.60	0.70	0.30	0.80	0.20	0.05	0.025	0.020*	0.03	0.55
		S460NLH	0.2	1.00-1.70	0.030	0.025	0.60	0.70	0.30	0.80	0.20	0.05	0.025	0.020*	0.03	0.55
EN 10255	½"- 6"	Light Medium Heavy L1 L2	0.20	1.40	0.035	0.030	-	-	-	-	-	-	-	-	-	-
AS 1074	½"- 6"	Light Medium Heavy	0.20	1.40	0.045	0.045	-	-	-	-	-	-	-	-	-	-
AS 1163	½"- 20	"C250 / C250L0"	0.12	0.50	0.030	0.030	0.05	0.25	0.15	0.25	-	-	-	0.10	0.04	0.25
		"C350/C350L0"	0.20	1.60	0.030	0.030	0.25	0.25	0.30	0.25		-	-	0.10	0.04	0.43
		"C450 / C450L0"	0.20	1.70	0.030	0.030	0.25	0.25	0.50	0.25	-	-	-	0.10	0.04	0.43

*- min value of Cu & Al. / NA- Not Applicable. / BT- Bend Test / OD- Outside Dimension / Thick- Wall Thickness / R- Required as per standard.

SPEC	SIZE	Grade /Series	Dimension		Mechanical Properties			Flattening Test		BT	Drift	Pressure	Weight
			OD	Thick	Yst Mpa	Ts Mpa	EL%	weld	Body			Mpa	
ASTM A53	½"- 20"	A B	"upto 1½" ± 0.4 mm, upto 1½"" ± 1%"	+ NL / - 12.5%	205 240	330 415	AS Per ASTM	33%(0°) 33%(90°)	66% (90)	< 2"R	R	R	±10%
ASTM A795	½"- 10"	A	"upto 1½" ± 0.4 mm, upto 1½"" ± 1%"	+ NL / - 12.5%	NA	NA	NA	33%(0°)	66% (90)	NA	NA	R	±5%
ASTM A500	½"- 20" (CHS)	A B C D	1½" & small ± 0.5% 2" & above ± 0.75%	±10%	228 290 317 250	310 400 427 400	25% 23% 21% 23%	33%(90°)	50% (90)	NA	NA	NA	±10%
ASTM A500	19X19- 400X400 40X20-400X300 (SHS / RHS)	A B C D	up to 2½" ± 0.51 mm over 2 2½" ± 0.64 mm Over 3" & above ± 0.76mm	±10%	269 317 345 250	310 400 427 400	25% 23% 21% 23%	-	-	NA	NA	NA	±10%
ASTM A252	6"- 20"	Gr.1 Gr.2 Gr.3	± 1%	+ NL / - 12.5%	205 240 310	245 415 455	AS Per table2	-	-	-	-	NA	+15% - 5% individual lengths
EN 10219	½"-20"	S235JRH S275JOH S275J2H S355JOH S355J2H S355K2H S275NH / NLH S355NH / NLH S460NH / NLH S275MH / MLH S355MH / MLH S420MH / MLH S460MH / MLH	± 1%	T< 5mm ±10% , T< 5mm ±0.5mm	235 275 275 355 355 355 275 355 460 275 355 420 460	360-510 410-560 410-560 470-630 470-630 470-630 370-510 470-630 540-720 360-510 450-610 500-660 530-720	24% 20% 20% 20% 20% 20% 24% 22% 20% 24% 22% 19% 17%	NA	NA	NA	NA	NA	± 6% mass on individual length

SPEC	SIZE	Grade /Series	Dimension		Mechanical Properties			Flattening Test		BT	Drift	Pressure	Weight
			OD	Thick	Yst Mpa	Ts Mpa	EL%	weld	Body			Mpa	
EN 10210	½"-20"	S235JRH S275J0H S275J2H S355J0H S355J2H S355K2H S275NH / NLH S355NH / NLH S420NH / NLH S460 NH / NLH	Square ±1% with a min of ±0.5mm & Circular ±1% with a min of ±0.5mm and maximum of ±10mm	-10%	235 275 275 355 355 355 275 355 420 460	360-510 410-560 410-560 470-630 470-630 470-630 370-510 470-630 520-680 540-720	26% 23% 23% 22% 22% 22% 24% 22% 19% 17%	NA	NA	NA	NA	NA	±6% on individual lengths
EN 10217	1/2"- 20"	P195 TR1e P195 TR2e P235 TR1e P235 TR2e P265 TR1e P265 TR2e	D ≤ 219.1 = ± 1% or ± 0.5mm whichever is the greater D > 219.1 = ± 0.75% or ± 6 mm whichever is the smaller	T < 5 ± 10% or ±0.3mm whichever is greater 5 < T ≤ 40 ± 8% or ± 2 mm whichever is smaller	195 195 235 235 265 265	320-440 320-440 360-500 360-500 410-570 410-570	25 25 23 23 29 29	H= (1+C) C+(T/D)xT	66% (90)	< 2R	R	70bar	±7.5%
EN 10255	½"- 6"	Light Medium Heavy L1 L2	AS per Standard EN10255 Table-2 ,B.1,B.2,B.3	Table-2 ,B.1,B.2,B.3	195	320-520	20%	25%	60% (90)	< 2 R	NA	50 bar	±7.5% +10% -8%
AS 1074	½"- 6"	Light Medium Heavy	As per Standard Table	L -8 % / +NL M -10% / +NL H -10% / +NL	195	320-460	20%	25%	60% (90)	< 2R	NA	50 bar	+10% -8 %
AS 1163	½"- 20"	C250 / C250L0 C350/ C350L0 C450 / C450L0	± 1% with minimum of ± 0.5mm	±10%	250 350 450	320 430 500	20%	25%	60% (90)	< 2 R	NA	50 bar	±7.5%

DIMENSIONS & WEIGHTS (MASS)

ASTM A53/ A795/A135/A513 /A500/B36.10

NPS	OD	SCH NO.	WEIGHT CLASS	WT		WEIGHT		PRESSURE Psi	
INCH (MM)	INCH (MM)	ASME/ ASTM		INCH	(MM)	Lb/Ft	(Kg/m)	Gr.A	Gr.B
1/2" (15)	0.840 (21.3)	5		0.065	1.65	0.54	0.80	700	700
		10		0.083	2.11	0.67	1.00	700	700
		30		0.095	2.41	0.76	1.12	700	700
		40	STD	0.109	2.77	0.85	1.27	700	700
3/4" (20)	1.050 (26.7)	5		0.065	1.65	0.69	1.03	700	700
		10		0.083	2.11	0.86	1.28	700	700
		30		0.095	2.41	0.97	1.44	700	700
		40	STD	0.113	2.87	1.13	1.69	700	700
1" (25)	1.315 (33.4)	5		0.065	1.65	0.87	1.29	700	700
		10		0.109	2.77	0.87	2.09	700	700
		30		0.114	2.90	1.41	2.18	700	700
		40	STD	0.133	3.38	1.46	2.50	700	700
1¼" (32)	1.660 (42.2)	5		0.07	1.65	1.11	1.65	700	700
		10		0.11	2.77	1.81	2.69	1000	1000
		30		0.12	2.97	1.93	2.87	1000	1000
		40	STD	0.14	3.56	2.27	3.39	1200	1300
1½" (40)	1.900 (48.3)	5		0.065	1.65	1.28	1.90	700	700
		10		0.109	2.77	2.09	3.11	1000	1000
		30		0.125	3.18	2.37	3.53	1000	1000
		40	STD	0.145	3.68	2.72	4.05	1200	1300
2" (50)	2.375 (60.3)	5		0.065	1.65	1.61	2.39	700	700
				0.083	2.11	2.03	3.03	700	700
		10		0.109	2.77	2.64	3.93	1000	1000
		30		0.125	3.18	3.01	4.48	1000	1000
				0.141	3.58	3.37	5.01	1000	1000
		40	STD	0.154	3.91	3.66	5.44	2300	2500
2 ½" (65)	2.875 (73)			0.109	2.77	3.22	4.80	1000	1000
		10		0.120	3.05	3.53	5.26	1000	1000
				0.125	3.18	3.67	5.48	1000	1000
				0.141	3.58	4.12	6.13	1000	1000
				0.156	3.96	4.53	6.74	1000	1000
				0.172	4.37	4.97	7.40	1000	1000
		30		0.188	4.78	5.40	8.04	1000	1000
		40	STD	0.203	5.16	5.80	8.63	2500	2500
3" (80)	3.500 (88.9)			0.109	2.77	3.95	5.88	1000	1000
		10		0.120	3.05	4.34	6.46	1000	1000
				0.125	3.18	4.51	6.72	1290	1500
				0.141	3.58	5.06	7.53	1290	1500
				0.156	3.96	5.58	8.30	1600	1870
				0.172	4.37	6.12	9.11	1840	2050
		30		0.188	4.78	6.66	9.92	1930	2260
		40	STD	0.216	5.49	7.58	11.29	2220	2500

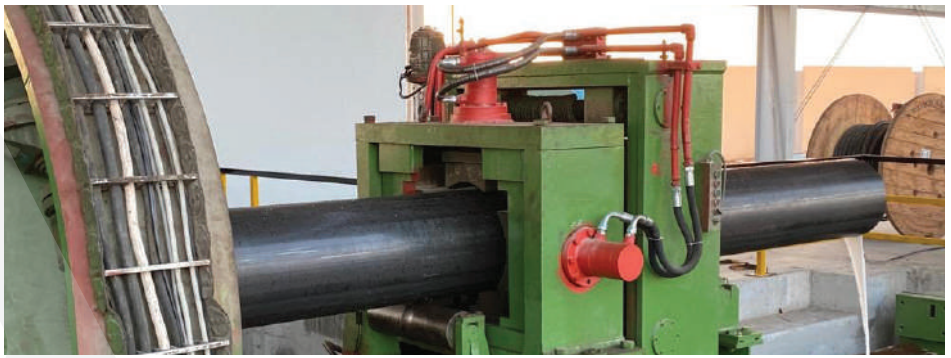
NPS	OD	SCH NO.	WEIGHT CLASS	WT		WEIGHT		PRESSURE Psi	
INCH (MM)	INCH (MM)	ASME/ ASTM		INCH	(MM)	Lb/Ft	(Kg/m)	Gr.A	Gr.B
3½" (90)	4.000 (101.6)	10		0.120	3.05	4.98	5.26	1122	1259
				0.125	3.18	5.18	5.48	1169	1311
				0.141	3.58	5.82	6.13	1319	1479
				0.156	3.96	6.41	6.74	1459	1637
				0.172	4.37	7.04	7.40	1609	1804
		30		0.188	4.78	7.66	8.04	1758	1972
		40	STD	0.226	5.74	9.12	13.57	2114	2371
4" (100)	4.500 (114.3)	10		0.12	3.05	5.62	8.37	998	1120
				0.125	3.18	5.85	8.71	1039	1170
				0.141	3.58	6.57	9.78	1172	1320
				0.156	3.96	7.24	10.78	1297	1460
				0.172	4.37	7.96	11.85	1430	1600
		30		0.188	4.78	8.67	12.91	1563	1750
				0.203	5.16	9.32	13.89	1688	1890
				0.219	5.56	10.02	14.91	1821	2040
		40	STD	0.237	6.02	10.8	16.08	1970	2210
5" (125)	5.563 (141.3)	10		0.134	3.40	7.78	11.56	901	1010
				0.156	3.96	9.02	13.41	1049	1180
				0.188	4.78	10.8	16.09	1264	1420
				0.219	5.56	12.51	18.61	1473	1650
		40	STD	0.258	6.55	14.63	21.77	1735	1950
6" (150)	6.625 (168.3)		0.140	3.56	9.77	14.54	790	890	
				0.156	3.96	10.79	16.05	881	988
				0.172	4.37	11.87	17.67	971	1089
				0.188	4.78	12.94	19.28	1061	1191
				0.203	5.16	13.94	20.76	1146	1286
				0.219	5.56	15.00	22.31	1236	1387
				0.250	6.35	17.04	25.36	1411	1583
		40	STD	0.280	7.11	18.99	28.26	1581	1773

DIMENSIONS & WEIGHTS (MASS)

ASTM A53/ A795/A135/A513 /A500/B36.10

NPS	OD	SCH NO.	WEIGHT CLASS	WT		WEIGHT		PRESSURE Psi	
INCH (MM)	INCH (MM)	ASME/ ASTM		INCH	(MM)	Lb/Ft	(Kg/m)	Gr.A	Gr.B
8" (200)	8.625 (219.1)	20		0.156	3.96	14.12	21.01	680	759
				0.188	4.78	16.96	26.26	819	915
				0.203	5.16	18.28	27.22	885	988
				0.219	5.56	19.68	29.28	954	1065
				0.250	6.35	22.38	33.32	1089	1216
		30		0.277	7.04	24.72	36.82	1207	1347
				0.312	7.92	27.73	41.25	1360	1518
		40	STD	0.322	8.18	28.58	42.55	1403	1566
				0.344	8.74	30.45	45.34	1499	1673
				0.375	9.53	33.07	49.25	1634	1824
		60		0.406	10.31	35.67	53.09	1769	1975
				0.438	11.13	38.33	57.08	1909	2131
		80	XS	0.500	12.70	43.43	64.64	2179	2432
10" (250)	10.750 (273)	20		0.203	5.16	22.89	34.08	710	793
				0.219	5.56	24.65	36.67	766	855
				0.250	6.35	28.06	41.76	874	976
				0.279	7.09	31.2	46.49	976	1089
		30		0.307	7.80	34.27	51.01	1074	1199
				0.344	8.74	38.27	56.96	1203	1343
		40	STD	0.365	9.27	40.52	60.29	1277	1425
				0.438	11.13	48.28	71.88	1532	1710
		60	XS	0.500	12.70	54.79	81.53	1749	1952
12" (300)	12.750 (323.8)	20		0.203	5.16	27.23	40.55	599	668
				0.219	5.56	29.34	43.64	646	721
				0.250	6.35	33.41	49.71	737	823
				0.281	7.14	37.46	55.76	829	925
				0.312	7.92	41.48	61.70	920	1027
		30		0.330	8.38	43.81	65.19	973	1086
				0.344	8.74	45.62	67.91	1014	1132
			STD	0.375	9.53	49.61	73.86	1106	1234
		40		0.406	10.31	53.57	79.71	1197	1336
				0.438	11.13	57.65	85.82	1292	1442
			XS	0.500	12.70	64.48	97.44	1474	1646
14" (350)	14.000 (355.6)	10		0.210	5.33	30.96	46.04	564	629
				0.219	5.56	32.26	47.99	588	656
				0.250	6.35	36.75	54.69	671	749
				0.281	7.14	41.21	61.35	754	842
		20		0.312	7.92	45.65	67.90	838	935
				0.344	8.74	50.223	74.76	924	1031
		30	STD	0.375	9.53	54.62	81.25	1007	1124
		40		0.438	11.13	63.5	94.55	1176	1313
				0.469	11.91	67.84	100.94	1259	1406
			XS	0.500	12.70	72.16	107.39	1343	1499

NPS	OD	SCH NO.	WEIGHT CLASS	WT		WEIGHT		PRESSURE Psi	
INCH (MM)	INCH (MM)	ASME/ ASTM		INCH	(MM)	Lb/Ft	(Kg/m)	Gr.A	Gr.B
16" (400)	16.000 (406.4)	10		0.250	6.35	42.09	62.64	587	656
				0.281	7.14	47.22	70.30	660	737
				0.312	7.92	52.32	77.83	733	818
		20		0.344	8.74	57.57	85.71	808	902
		30	STD	0.375	9.53	62.64	93.17	881	983
				0.438	11.13	72.86	108.49	1029	1149
				0.469	11.91	77.87	115.86	1102	1230
		40	XS	0.500	12.70	82.85	123.30	1175	1311
18" (450)	18.000 (457.2)	10		0.250	6.35	47.44	70.60	522	583
				0.281	7.14	53.23	79.24	587	655
		20		0.312	7.92	58.99	87.75	652	727
				0.344	8.74	64.93	96.66	718	802
				0.375	9.53	70.65	105.10	783	874
				0.406	10.31	76.36	113.62	848	946
		30		0.438	11.13	82.23	122.43	915	1021
				0.469	11.91	87.89	130.78	979	1093
			XS	0.500	12.70	93.54	139.20	1044	1166
		40		0.562	14.27	104.76	155.87	1173	1310
20" (500)	20.000 (508)	10		0.250	6.35	52.78	78.55	470	525
				0.281	7.14	59.23	88.19	528	590
				0.312	7.92	65.66	97.67	586	655
				0.344	8.74	72.28	107.60	647	722
		20	STD	0.375	9.53	78.67	117.02	705	787
				0.406	10.31	84.04	126.53	763	852
				0.438	11.13	91.59	136.37	823	919
				0.469	11.91	97.92	145.70	881	984
			XS	0.500	12.70	104.23	155.12	940	1049
		40		0.594	15.09	123.23	183.42	1117	1246



DIMENSIONS & WEIGHTS (MASS)

EN 10255 / BS 1387

NB	OD	CLASS / SERIES	THICK. MM	KG / M (BARE TUBES)		KG / M (GI TUBES)		PRESSURE
INCH (MM)	(MM)			PLAIN END	THREADED & SOCKETED	PLAIN END	THREADED & SOCKETED	Bar
1/2" (15)	21.3	L1 L2 M H	2.30 2.00 2.60 3.20	1.080 0.947 1.210 1.440	1.090 0.956 1.220 1.450	1.128 0.995 1.257 1.486	1.14 1.01 1.27 1.50	50
3/4" (20)	26.7	L1 L2 M H	2.30 2.30 2.60 3.20	1.390 1.380 1.560 1.870	1.400 1.390 1.570 1.880	1.452 1.441 1.621 1.930	1.47 1.46 1.64 1.94	50
1" (25)	33.7	L1 L2 M H	2.90 2.60 3.20 4.00	2.200 1.980 2.410 2.930	2.220 2.000 2.430 2.950	2.277 2.058 2.487 3.005	2.30 2.08 2.51 3.03	50
1¼" (32)	42.4	L1 L2 M H	2.90 2.60 3.20 4.00	2.820 2.540 3.100 3.790	2.850 2.570 3.130 3.820	2.919 2.640 3.199 3.887	2.95 2.67 3.23 3.92	50
1½" (40)	48.3	L1 L2 M H	2.90 2.90 3.20 4.00	3.240 3.230 3.560 4.370	3.280 3.270 3.600 4.410	3.354 3.343 3.673 4.481	3.40 3.39 3.72 4.53	50
2" (50)	60.3	L1 L2 M H	3.20 2.90 3.60 4.50	4.490 4.080 5.030 6.190	4.560 4.150 5.100 6.260	4.633 4.223 5.172 6.330	4.70 4.29 5.24 6.40	50
2 ½" (65)	76.1	L1 L2 M H	3.20 3.20 3.60 4.50	5.730 5.710 6.420 7.930	5.850 5.830 6.540 8.050	5.912 5.892 6.602 8.110	6.01 5.99 6.70 8.21	50
3" (80)	88.9	L1 L2 M H	3.60 3.20 4.00 5.00	7.550 6.720 8.360 10.30	7.720 6.890 8.530 10.50	7.764 6.934 8.573 10.510	7.91 7.08 8.72 10.65	50
4 " (100)	114.3	L1 L2 M H	4.00 3.60 4.50 5.40	10.80 9.75 12.20 14.50	11.10 10.00 12.50 14.80	11.075 10.026 12.476 14.774	11.30 10.25 12.71 15.00	50
5" (125)	139.7	M H	5.00 5.40	16.60 17.90	17.10 18.40	16.938 18.238	17.32 18.62	50
6" (150)	165.1	M H	5.00 5.40	19.80 21.30	20.40 21.90	20.204 21.702	20.68 22.17	50

DIMENSIONS & WEIGHTS (MASS)

EN 10219 / EN 10219 / EN 10210

OUTSIDE DIAMETER	SPEC. / GRADE	THICK. MM	KG / M (BARE) PLAIN END	KG / M (GI) PLAIN END	Hydrotest Pressure (bar) EN 10217
21.3	EN 10219 EN 10210 EN 10217	2.00 2.50 3.00	0.950 1.160 1.350	0.998 1.207 1.396	70
26.7	EN 10219 EN 10210 EN 10217 EN 10217	2.00 2.50 3.00	1.230 1.500 1.770	1.293 1.561 1.830	70
33.7	EN 10219 EN 10210 EN 10217	2.00 2.50 3.00	1.560 1.920 2.270	1.639 1.998 2.347	70
38.1	-- --	3.20 40.0	2.754 3.360	2.842 3.369	70
42.4	EN 10219 EN 10210 EN 10217	2.00 2.50 3.00 4.00	1.990 2.460 2.910 3.790	2.091 2.560 3.009 3.887	70
48.3	EN 10219 EN 10210 EN 10217	2.00 2.50 3.00 4.00	2.280 2.820 3.350 4.370	2.396 2.935 3.464 4.481	70
48.3	EN 39 EN 39	3.20 4.00	3.560 4.370	3.673 4.481	70
60.3	EN 10219 EN 10210 EN 10217	2.00 2.50 3.00 4.00 5.00	2.880 3.560 4.240 5.550 6.820	3.027 3.705 4.384 5.691 6.959	70
76.1	EN 10219 EN 10210 EN 10217	2.50 3.00 4.00 5.00	4.540 5.410 7.110 8.770	4.725 5.594 7.291 8.949	70
88.9	EN 10219 EN 10210 EN 10217	2.50 3.00 4.00 5.00	5.330 6.360 8.380 10.30	5.547 6.576 8.593 10.510	70
101.6	EN 10219 EN 10210 EN 10217	2.80 3.00 4.00 5.00	6.82 7.29 9.63 11.90	7.068 7.538 9.875 12.143	70

OUTSIDE DIAMETER	SPEC. / GRADE	THICK. MM	KG / M (BARE) PLAIN END	KG / M (GI) PLAIN END	Hydrotest Pressure (bar) EN 10217
114.3	EN 10219 EN 10210 EN 10217	3.00 4.00 5.00 6.00	8.23 10.90 13.50 16.00	8.510 11.178 13.775 16.272	70
127.0	--- --- ---	3.00 3.20 3.50	9.17 9.76 10.65	9.481 10.071 10.960	70
139.7	EN 10219 EN 10210 EN 10217	4.00 5.00 6.00	13.40 16.60 19.80	13.741 16.938 20.136	70
168.3	EN 10219 EN 10210 EN 10217	4.00 5.00 6.00 6.30 8.00	16.20 20.10 24.00 25.20 31.60	16.613 20.510 24.408 25.608 32.003	70
177.8	EN 10219 EN 10210 EN 10217	4.00 5.00 6.00 6.30 8.00	17.10 21.30 25.40 26.60 33.50	17.536 21.734 25.831 27.030 33.927	70

DIMENSIONS & WEIGHTS (MASS)

AS 1163

OUTSIDE DIAMETER	THICK. MM	KG / M (BARE) PLAIN END	KG / M (GI) PLAIN END
42.4	3.20 4.00	3.094 3.788	3.192 3.885
48.3	3.20 4.00	3.559 4.370	3.672 4.481
60.3	3.60 4.50	5.034 6.193	5.176 6.333
76.1	2.30 3.20 3.60 4.50	4.186 5.753 6.437 7.946	4.372 5.936 6.619 8.126
88.9	2.60 3.20 4.80 5.50	5.534 6.763 9.955 11.312	5.750 6.979 10.167 11.522
101.6	2.60 3.20 4.00 5.00	6.348 7.765 9.628 11.912	6.597 8.013 9.873 12.154
114.3	3.20 3.60 4.50 4.80 5.00 6.00	8.768 9.828 12.185 12.962 13.478 16.025	9.047 10.106 12.461 13.237 13.752 16.297
139.7	3.00 3.50 5.00 5.40	10.114 11.756 16.610 17.885	10.457 12.098 16.948 18.223

OUTSIDE DIAMETER	THICK. MM	KG / M (BARE) PLAIN END	KG / M (GI) PLAIN END
165.1	3.00 3.50 5.00 5.40	11.993 13.949 19.742 21.268	12.400 14.355 20.144 21.669
168.3	4.80 6.40 7.10	19.354 25.553 28.226	19.765 25.960 28.631
219.1	4.80 6.40 8.20	25.368 33.571 42.649	25.906 34.106 43.179
273.1	4.80 6.40 9.30	31.760 42.094 60.503	32.434 42.764 61.166
323.9	6.40 9.50 12.70	50.11 73.66 97.47	50.910 74.449 98.250
355.6	6.40 9.50 12.70	55.12 81.09 107.40	55.993 81.956 108.258
406.4	6.40 9.50 12.70	63.13 92.99 123.31	64.139 93.985 124.297
457.0	6.40 9.50 12.70	71.12 104.84 139.16	72.252 105.967 140.272
508.0	6.40 9.50 12.70	79.17 116.79 155.13	80.430 118.043 156.373

DIMENSIONS & WEIGHTS (MASS)
SHS & RHS - HOLLOW SECTIONS

A500 / A513 /EN 10219-1&2 / AS1163 / EN 10210

OD MM SHS (RHS)	THICK. MM	OD MM SHS (RHS)
19X19	1.20	0.642
	1.50	0.779
	1.80	0.907
	2.00	0.987
25X25	1.20	0.868
	1.50	1.061
	1.60	1.124
	1.80	1.246
	2.60	1.692
	2.00	1.364
	2.50	1.640
	3.00	1.891
30X30 (40X20)	1.20	1.056
	1.50	1.297
	1.80	1.528
	2.60	2.100
	2.00	1.678
	2.50	2.032
	3.00	2.362
38X38	1.20	1.358
	1.50	1.674
	1.80	1.981
	2.00	2.180
	2.60	2.753
	3.00	3.115
	3.80	3.789
	4.00	3.947
40X40	1.20	1.433
	1.50	1.768
	1.80	2.094
	2.80	3.112
	2.00	2.306
	2.50	2.817
	3.00	3.304
(50X25)	1.20	1.339
	1.50	1.650

OD MM SHS (RHS)	THICK. MM	OD MM SHS (RHS)
	1.80	1.952
	2.00	2.149
	2.60	2.713
	2.80	2.892
	3.00	3.068
50X50 (60X40)	1.50	2.239
	1.80	2.659
	2.60	3.733
	2.00	2.934
	2.50	3.602
	3.00	4.246
	4.00	5.454
	5.00	6.560
(60X30)	1.20	1.621
	1.50	2.003
	1.80	2.376
	2.00	2.620
	2.50	3.210
	2.60	3.325
	2.80	3.552
	3.00	3.775
60X60 (80X40)	2.00	3.562
	2.60	4.550
	2.80	4.871
	3.50	5.962
	3.80	6.414
	4.80	7.854
	2.00	3.562
	2.50	4.387
	3.00	5.188
	4.00	6.710
75X75 (100X50)	2.00	4.504
	2.60	5.774
	2.80	6.189
	3.00	6.601
	3.50	7.610
	3.80	8.204

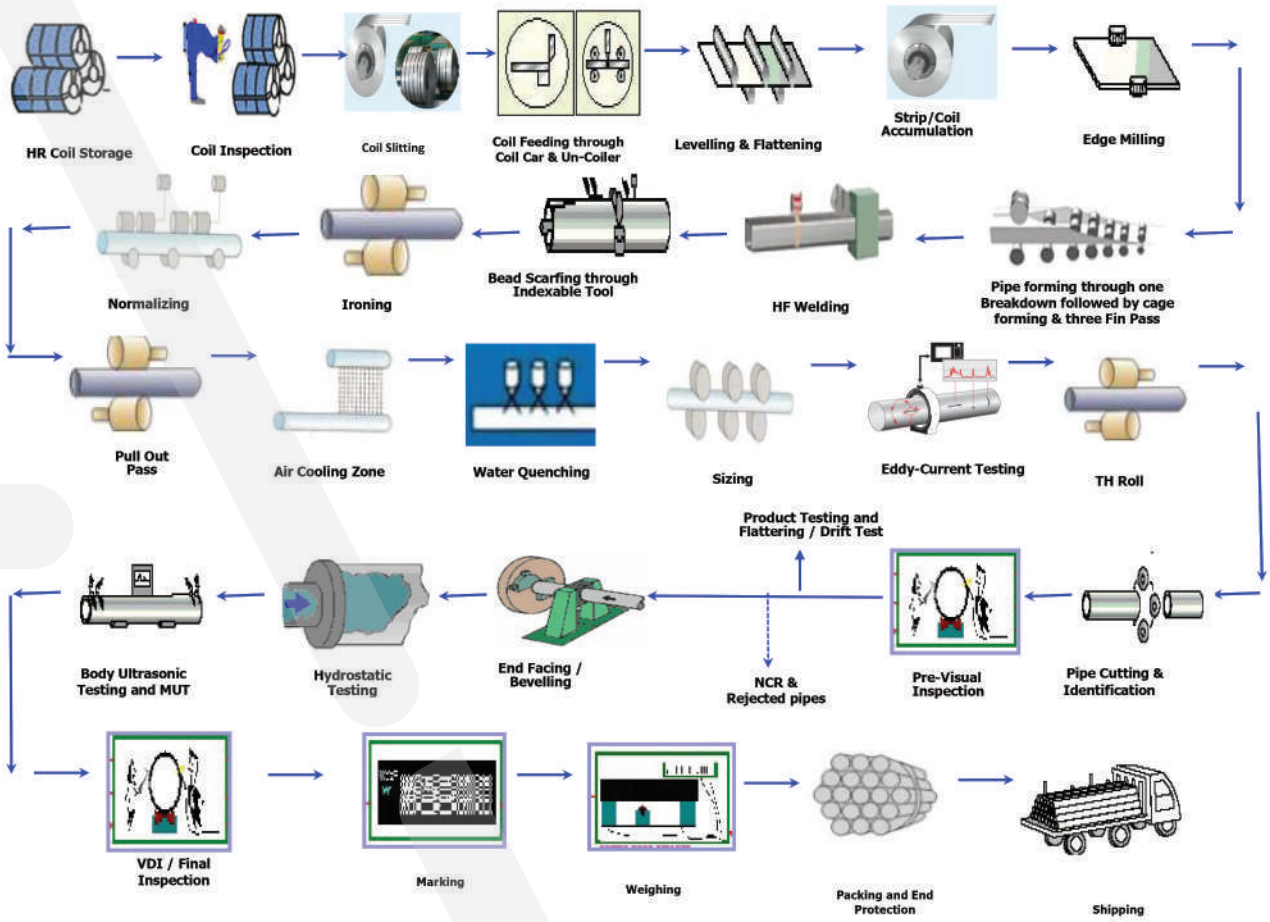
OD MM SHS (RHS)	THICK. MM	OD MM SHS (RHS)
	4.00	8.594
	4.80	10.115
	5.00	10.485
90X90	2.60	6.999
	3.80	9.994
	4.80	12.376
	5.50	13.982
	3.00	8.014
	4.00	10.478
	5.00	12.840
(100X75)	2.60	6.795
	2.80	7.288
	3.00	7.778
	3.80	9.695
	4.00	10.164
	4.80	11.999
	5.00	12.447
	5.50	13.550
100X100	2.60	7.815
	2.80	8.387
	3.80	11.187
	4.80	13.883
	5.50	15.709
	3.00	8.956
	4.00	11.734
	5.00	14.410
(150X100)	4.00	14.874
	5.00	18.335
	5.50	20.026
	6.00	21.692
	6.50	23.332
	7.00	24.946
	7.50	26.535
	8.00	28.097

OD MM SHS (RHS)	THICK. MM	OD MM SHS (RHS)
(150X100)	8.00	28.097
	8.50	29.634
	9.00	31.145
	9.50	32.630
	10.00	34.089
	10.50	35.523
	11.00	36.931
	11.50	38.313
150X150 (200X100)	4.00	18.014
	5.00	22.260
	5.50	24.344
	6.00	26.402
	6.50	28.435
	7.00	30.441
	7.50	32.422
	8.00	34.377
	8.50	36.306
	9.00	38.210
	9.50	40.088
	10.00	41.939
	10.50	43.765
	11.00	45.566
	11.50	47.340
200X200 (300x100) (250X150)	4.00	24.294
	5.00	30.110
	5.50	32.979
	6.00	35.822
	6.50	38.640
	7.00	41.431
	7.50	44.197
	8.00	46.937
	8.50	49.651
	9.00	52.340
	9.50	55.003
	10.00	57.639
	10.50	60.250
	11.00	62.836

OD MM SHS (RHS)	THICK. MM	OD MM SHS (RHS)
	11.50	65.395
	12.00	67.929
	12.50	70.437
250X250 (200X300) (400x100)	5.00	37.960
	5.50	41.614
	6.00	45.242
	6.50	48.845
	7.00	52.421
	7.50	55.972
	8.00	59.497
	8.50	62.996
	9.00	66.470
	9.50	69.918
	10.00	73.339
	10.50	76.735
	11.00	80.106
	11.50	83.450
	12.00	86.769
	12.50	90.062
300X300 (350X250) (400x200)	6.00	54.662
	6.50	59.050
	7.00	63.411
	7.50	67.747
	8.00	72.057
	8.50	76.341
	9.00	80.600
	9.50	84.833
	10.00	89.039
	10.50	93.220
	11.00	97.376
	11.50	101.505
	12.00	105.609
	12.50	109.687
	13.00	113.739
	13.50	117.765
	14.00	121.765
	14.50	125.740
	15.00	129.689

OD MM SHS (RHS)	THICK. MM	OD MM SHS (RHS)
	15.50	133.612
	16.00	137.509
350X350 (400X300)	8.00	84.617
	8.50	89.686
	9.00	94.730
	9.50	99.748
	10.00	104.739
	10.50	109.705
	11.00	114.646
	11.50	119.560
	12.00	124.449
	12.50	129.312
	13.00	134.149
	13.50	138.960
	14.00	143.745
	14.50	148.505
	15.00	153.239
	15.50	157.947
	16.00	162.629
400X400	10.00	120.439
	10.50	126.190
	11.00	131.916
	11.50	137.615
	12.00	143.289
	12.50	148.937
	13.00	154.559
	13.50	160.155
	14.00	165.725
	14.50	171.270
	15.00	176.789
	15.50	182.282
	16.00	187.749

PROCESS FLOW CHART



Product Range Chart 1/2" - 6"

Outside Diameter		Wall Thickness															
mm	Inch	0.031	0.039	0.059	0.071	0.098	0.118	0.138	0.157	0.177	0.197	0.217	0.236	0.256	0.276	0.295	0.315
		0.8	1	1.5	1.8	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
21.30	1/2"	♦	♦	♦	♦	♦											
26.7/26.9	3/4"	♦	♦	♦	♦	♦											
33.4/33.7	1"	♦	♦	♦	♦	♦	♦	♦									
42.40	1-1/4"	♦	♦	♦	♦	♦	♦	♦	♦								
48.30	1-1/2"	♦	♦	♦	♦	♦	♦	♦	♦								
60.30	2"		♦	♦	♦	♦	♦	♦	♦	♦							
73/76.1	2-1/2"			♦	♦	♦	♦	♦	♦	♦							
88.90	3"				♦	♦	♦	♦	♦	♦	♦						
101.60	3-1/3"				♦	♦	♦	♦	♦	♦	♦	♦					
114.30	4"				♦	♦	♦	♦	♦	♦	♦	♦	♦				
139.7/141.3	5"				♦	♦	♦	♦	♦	♦	♦	♦	♦	♦			
165.1/168.3	6"					♦	♦	♦	♦	♦	♦	♦	♦	♦			

Product Range Chart 1/2" - 6"

Outside Diameter		Wall Thickness															
mm	Inch	0.031	0.039	0.059	0.071	0.098	0.118	0.138	0.157	0.177	0.197	0.217	0.236	0.256	0.276	0.295	0.315
		0.8	1	1.5	1.8	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
19x19	-	♦	♦	♦	♦												
19.05 x 19.05	3/4" X 3/4"	♦	♦	♦	♦												
25x25	-	♦	♦	♦	♦	♦											
25.40 x 25.40	1" X 1"	♦	♦	♦	♦	♦											
30x30	-	♦	♦	♦	♦	♦	♦										
31.75 x 31.75	1-1/4" X 1-1/4"	♦	♦	♦	♦	♦	♦										
32x32	-	♦	♦	♦	♦	♦	♦										
38x38	-	♦	♦	♦	♦	♦	♦										
38.10 x 38.10	1-1/2" X 1-1/2"	♦	♦	♦	♦	♦	♦										
40x40	-		♦	♦	♦	♦	♦										
50x50	-		♦	♦	♦	♦	♦	♦	♦	♦							
50.80 x 50.80	2" X 2"		♦	♦	♦	♦	♦	♦	♦	♦	♦						
60x60	-		♦	♦	♦	♦	♦	♦	♦	♦	♦						
63.50 x 63.50	2-1/2" X 2-1/2"			♦	♦	♦	♦	♦	♦	♦	♦						
76.20 x 76.20	3" X 3"			♦	♦	♦	♦	♦	♦	♦	♦						
75 x 75				♦	♦	♦	♦	♦	♦	♦	♦						
80x80	-			♦	♦	♦	♦	♦	♦	♦	♦						
100x100	-			♦	♦	♦	♦	♦	♦	♦	♦						
101.60 x 101.60	4" X 4"			♦	♦	♦	♦	♦	♦	♦	♦						
38x25	-		♦	♦	♦	♦											
40x20	-		♦	♦	♦	♦	♦										
50x25	-		♦	♦	♦	♦	♦										

Product Range Chart 1/2" - 6"

Outside Diameter		Wall Thickness															
mm	Inch	0.031	0.039	0.059	0.071	0.098	0.118	0.138	0.157	0.177	0.197	0.217	0.236	0.256	0.276	0.295	0.315
		0.8	1	1.5	1.8	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
50x30	-		♦	♦	♦	♦											
50.80 x 101.60	2" X 4"			♦	♦	♦	♦	♦	♦	♦	♦	♦					
50.80 x 152.4	2" X 6"			♦	♦	♦	♦	♦	♦	♦	♦	♦					
60x30	-		♦	♦	♦	♦	♦										
60x40	-		♦	♦	♦	♦	♦	♦	♦	♦							
76x20	-		♦	♦	♦	♦	♦										
76x38	-		♦	♦	♦	♦	♦										
76.20 x 127.0	3" X 5"				♦	♦	♦	♦	♦	♦	♦						
76.20 x 152.4	3" X 6"				♦	♦	♦	♦	♦	♦	♦						
80x40	-		♦	♦	♦	♦	♦	♦	♦	♦	♦						
100x40	-			♦	♦	♦	♦	♦	♦	♦							
100x50	-			♦	♦	♦	♦	♦	♦	♦	♦	♦					
100x60	-				♦	♦	♦	♦	♦	♦							
101.60 x 152.4	4" X 6"						♦	♦	♦	♦	♦						
120x40	-					♦	♦	♦	♦	♦							
120x60	-					♦	♦	♦	♦	♦							
EN 10219	S235 /S275	JO/JR/J2															
EN 10217	P195 /P235	TR1 /TR2															
EN 10255	S235 /S275	JO/JR/J2															
AS 1163	C250	L0															
ASTM A53 / A795	Gr.A / Gr.B	cus req.															
ASTM A500	Gr.A /Gr.B	cus req.															
	S355 FOR THICKNESS LESS THAN 4MM ONLY																

Product Range Chart - 7- 5/8" to 20"

Outside Diameter		Wall Thickness															
mm	Inch	0.157	0.197	0.217	0.236	0.256	0.276	0.295	0.315	0.335	0.354	0.374	0.394	0.413	0.433	0.453	0.472
		4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12
193.70	7- 5/8	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
219.10	8-5/8	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
244.50	9-5/8	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
273.10	10-3/4		♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
312.00	12-7/25		♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
323.90	12-3/4		♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
339.70	13-3/8		♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
355.60	14			♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
377.00	14-21/25				♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
406.40	16				♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
426.00	16-3/4				♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
445.00	17-1/2				♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
457.20	18				♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
473.00	18-5/8					♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
508.00	20					♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
mm	Inch	0.157	0.197	0.217	0.236	0.256	0.276	0.295	0.315	0.335	0.354	0.374	0.394	0.413	0.433	0.453	0.472
		4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12
150 X 150	6 X 6	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
200 X 100	8 X 4	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
200 X 150	8 X 6	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
200 X 200	8 X 8	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
250 X 100	10 X 4	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
250 X 150	10 X 6	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
250 X 250	10 X 10		♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
300 X 100	12 X 4		♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
300 X 150	12 X 6		♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
300 X 200	12 X 8		♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
300 X 250	12 X 10		♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
300 X 300	12 X 12				♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
400 X 200	16 X 8					♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
400 X 300	16 X 12					♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
400 X 400	16 X 16					♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦

Grade API 5CT :	H40 ,J55 & K55

Grade API 5L :	PSL1 PSL 2	L245 or B L245M or BM	L290 or X42 L290M or X42M	L320 or X46 L320M or X46M	L360 or X52 L360M or X52M	L390 or X56 L390M or X56M

0.492	0.512	0.531	0.551	0.571	0.591	0.610	0.630
12.5	13	13.5	14	14.5	15	15.5	16
♦							
♦							
♦							
♦							
♦	♦						
♦	♦						
♦	♦						
♦	♦	♦	♦				
♦	♦	♦	♦	♦	♦		
♦	♦	♦	♦	♦	♦	♦	♦

0.492	0.512	0.531	0.551	0.571	0.591	0.610	0.630
12.5	13	13.5	14	14.5	15	15.5	16
♦							
♦							
♦							
♦							
♦							
♦							
♦							
♦							
♦							
♦	♦						
♦	♦						
♦	♦	♦	♦	♦	♦	♦	♦
♦	♦	♦	♦	♦	♦	♦	♦

L415 or X60
L415M or X60M

L450 or X65
L450M or X65M

L485 or X70
L485M or X70M

DIMENSIONS & WEIGHTS (MASS)
SHS & RHS HOLLOW SECTIONS

A500 /A513

OD INCH SHS (RHS)	SPEC. / GRADE	THICK. INCH	KG / FT BARE PLAIN END
1"X1"	A500	0.047	0.268
	A500	0.059	0.329
	A500	0.078	0.420
	A500	0.095	0.495
	A500	0.120	0.595
1¼"X1¼"	A500	0.047	0.341
	A500	0.059	0.421
	A500	0.078	0.541
	A500	0.095	0.64
	A500	0.120	0.782
1½"X1½" (2"X1")	A500	0.059	0.511
	A500	0.078	0.661
	A500	0.095	0.789
	A500	0.120	0.966
2"X2"	A500	0.059	0.693
	A500	0.078	0.902
	A500	0.095	1.082
	A500	0.120	1.336
	A500	0.180	1.895
	A500	0.188	1.963
2½"X2½" (3"X2")	A500	0.078	1.143
	A500	0.095	1.375
	A500	0.120	1.707
	A500	0.180	2.450
	A500	0.188	2.544
3"X3" (4"X2")	A500	0.078	1.383
	A500	0.095	1.669
	A500	0.120	2.077
	A500	0.180	3.006
	A500	0.188	3.125
	A500	0.197	3.256

OD INCH SHS (RHS)	SPEC. / GRADE	THICK. INCH	KG / FT BARE PLAIN END
4"X4" (5"X3") (6"X2")	A500	0.120	2.818
	A500	0.180	4.118
	A500	0.188	4.286
	A500	0.197	4.473
	A500	0.220	4.944
	A500	0.250	5.542
(6"X3")	A500	0.120	3.189
	A500	0.180	4.674
	A500	0.188	4.866
	A500	0.197	5.081
	A500	0.203	5.224
(6"X4")	A500	0.220	5.623
	A500	0.250	6.314
	A500	0.120	3.560
	A500	0.180	5.230
	A500	0.188	5.447
	A500	0.197	5.690
	A500	0.203	5.851
	A500	0.220	6.303
	A500	0.250	7.086
6"X6" (8"X4")	A500	0.157	5.568
	A500	0.197	6.906
	A500	0.217	7.563
	A500	0.236	8.180
	A500	0.256	8.821
	A500	0.295	10.049
	A500	0.315	10.666
	A500	0.335	10.666
6"X6" (8"X4")	A500	0.394	13.025
	A500	0.413	13.573
	A500	0.433	14.143

OD INCH SHS (RHS)	SPEC. / GRADE	THICK. INCH	KG / FT BARE PLAIN END
	A500	0.453	14.704
	A500	0.472	15.230
8"X6"	A500	0.157	6.537
	A500	0.197	8.123
	A500	0.217	8.904
	A500	0.236	9.638
	A500	0.256	10.403
	A500	0.295	11.871
	A500	0.315	12.611
	A500	0.394	15.458
	A500	0.413	16.124
	A500	0.433	16.817
	A500	0.453	17.502
	A500	0.472	18.145
8"X8" (12"X4") (10"X6")	A500	0.197	9.340
	A500	0.217	10.244
	A500	0.236	11.095

OD INCH SHS (RHS)	SPEC. / GRADE	THICK. INCH	KG / FT BARE PLAIN END
8"X8" (12"X4") (10"X6")	A500	0.256	11.984
	A500	0.295	13.693
	A500	0.315	14.557
	A500	0.394	17.892
	A500	0.413	18.675
	A500	0.433	19.491
	A500	0.453	20.300
	A500	0.472	21.060
10"X10" (12"X8") (14"x6")	A500	0.197	11.773
	A500	0.217	12.924
	A500	0.236	14.011
	A500	0.256	15.146
	A500	0.276	16.273
	A500	0.295	17.337
	A500	0.315	18.448
	A500	0.335	19.551
	A500	0.354	20.592
	A500	0.374	21.679
	A500	0.394	22.759
	A500	0.413	23.776
	A500	0.433	24.840
	A500	0.453	25.895
	A500	0.472	26.890
	A500	0.492	27.930
(12"X12") (14"x10") (16" X 8")	A500	0.236	16.926
	A500	0.256	18.308
	A500	0.276	19.682
	A500	0.295	20.980
	A500	0.315	22.339
	A500	0.335	23.689
	A500	0.354	24.965

OD INCH SHS (RHS)	SPEC. / GRADE	THICK. INCH	KG / FT BARE PLAIN END
(16"X12")	A500	0.374	26.299
	A500	0.394	27.625
	A500	0.413	28.878
	A500	0.433	30.189
	A500	0.453	31.491
	A500	0.472	32.721
	A500	0.492	34.007
	A500	0.512	35.286
	A500	0.256	18.003
	A500	0.276	19.333
	A500	0.295	20.655
	A500	0.315	21.969
	A500	0.335	23.275
	A500	0.354	24.573
	A500	0.374	25.864
	A500	0.394	27.146
	A500	0.413	28.421
	A500	0.433	29.688
	A500	0.453	30.947
	A500	0.472	32.198
	A500	0.492	33.441
	A500	0.512	34.676
	A500	0.531	35.904
	A500	0.551	37.124
	A500	0.571	38.335
	A500	0.591	39.539
	A500	0.610	40.735
	A500	0.630	41.923
(16''X16'')	A500	0.256	24.626
	A500	0.276	26.494
	A500	0.295	28.261

OD INCH SHS (RHS)	SPEC. / GRADE	THICK. INCH	KG / FT BARE PLAIN END
	A500	0.315	30.113
	A500	0.335	31.957
	A500	0.354	33.701
	A500	0.374	35.530
	A500	0.394	37.350
	A500	0.413	39.071
	A500	0.433	40.875
	A500	0.453	42.671
(16''X16'')	A500	0.472	44.370
	A500	0.492	46.150
	A500	0.512	47.922
	A500	0.531	49.598
	A500	0.551	51.355
	A500	0.571	53.103
	A500	0.591	54.843
	A500	0.610	56.488
	A500	0.630	58.213

API 5L
Chemical Composition For PSL 1 Pipe Max %

	Mass Fraction, Based on Heat and Product Analyses a,g							
	C	Mn	P		S	v	Nb	Ti
	maxb	maxb	min	max	max	max	max	max
Gr.A25	0.21	0.60	--	0.030	0.030	-	-	-
Gr.A25P	0.21	0.60	0.080	0.080	0.030	-	-	-
Gr.A	0.22	0.90	--	0.030	0.030	-	-	-
Gr.B	0.26	1.20	--	0.030	0.030	c,d	d	c,d
Gr.x42	0.26	1.30	--	0.030	0.030	d	d	d
Gr.x46	0.26	1.40	--	0.030	0.030	d	d	d
Gr.x52	0.26	1.40	--	0.030	0.030	d	d	d
Gr.x56	0.26	1.40	--	0.030	0.030	d	d	d
Gr.x60	0.26e	1.40e	--	0.030	0.030	f	f	f
Gr.x65	0.26e	1.45e	--	0.030	0.030	f	f	f
Gr.x70	0.26e	1.65e	--	0.030	0.030	f	f	f

a. Cu ≤ 0.50 %; Ni ≤ 0.50 %; Cr ≤ 0.50 % and Mo ≤ 0.15 %.

"b. For each reduction of 0.01 % below the specified maximum concentration for carbon, an increase of 0.05 % above the specified maximum concentration for Mn is permissible, up to a maximum of 1.65 % for grades ≥ L245 or B, but ≤ L360 or X52; up to a maximum of 1.75 % for grades > L360 or X52, but < L485 or X70; and up to a maximum of 2.00 % for Grade L485 or X70.

c. Unless otherwise agreed, Nb + V ≤ 0.06 %.

d. Nb + V + Ti ≤ 0.15 %.

e. Unless otherwise agreed.

f. Unless otherwise agreed, Nb + V + Ti ≤ 0.15 %.

g. No deliberate addition of B is permitted and the residual B ≤ 0.001 %.

Requirements for the Results of Tensile Tests for PSL 1 Pipe

PSL-1	Gr.A25	Gr.A25P	Gr.A	Gr.B	Gr.X42	Gr.x46	Gr.X52	Gr.X56	Gr.x60	Gr.X65	Gr.X70
	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa
Ys (Min)	175	175	210	245	290	320	360	390	415	450	485
TSa (Min)	310	310	335	415	415	435	460	490	520	535	570
WTS	310	310	335	415	415	435	460	490	520	535	570
% El(min)	Calculation% Min. (Gauge Length 50 mm) as per API Spec. 5L Footnote C										

Flattening Test

(A) For grades ≥ X60 with t ≥ 12.7 mm, there shall be no opening of the weld before the distance between the plates is less than 66 % of the original outside diameter. For all other combinations of pipe grade and specified wall thickness, there shall be no opening of the weld before the distance between the plates is less than 50 % of the original outside diameter

(B) For pipe with a D/t > 10, there shall be no cracks or breaks other than in the weld before the distance between the plates is less than 33 % of the original outside diameter.

(C) There shall be no evidence of lamination or burnt metal during the entire test before opposite walls of the pipe meet.

Mass Tolerances

a) For pipe in grade A25= +10%, -5.0% of nominal mass
b) For all other pipes=+10%, -3.5% of nominal mass
c) Mass of 18 tonnes or more= -1.75%

API 5L

Chemical Composition For PSL 2 Pipe Max %

Steel Grade	"Mass Fraction, Based on Heat and Product Analyses % max"									"Carbon Equivalent a	
	Cb	Si	Mnb	P	S	V	Nb	Ti	other	CEIIW	CEPcm
Gr.BM	0.22	0.45	1.20	0.025	0.015	0.05	0.05	0.04	e,l	0.43	0.25
Gr.X42M	0.22	0.45	1.30	0.025	0.015	0.05	0.05	0.04	e,l	0.43	0.25
Gr.X46M	0.22	0.45	1.30	0.025	0.015	0.05	0.05	0.04	e,l	0.43	0.25
Gr.X52M	0.22	0.45	1.40	0.025	0.015	d	d	d	e,l	0.43	0.25
Gr.x56M	0.22	0.45	1.40	0.025	0.015	d	d	d	h,l	0.43	0.25
Gr.x60M	0.12f	0.45f	1.60f	0.025	0.015	g	g	g	h,l	0.43	0.25
Gr.X65M	0.12f	0.45f	1.60f	0.025	0.015	g	g	g	h,l	0.43	0.25
Gr.X70M	0.12f	0.45f	1.60f	0.025	0.015	g	g	g	h,l	0.43	0.25

a) Based on product analysis, for seamless pipe with t > 20.0 mm (0.787 in.), the CE limits shall be as agreed; the CEIIW limits apply if C > 0.12 % and the CEPcm limits apply if C ≤ 0.12 %.

b) For each reduction of 0.01 % below the specified maximum for C, an increase of 0.05 % above the specified maximum for Mn is permissible, up to a maximum of 1.65 % for grades ≥ L245 or B, but ≤ L360 or X52; up to a maximum of 1.75 % for grades > L360 or X52, but < L485 or X70; up to a maximum of 2.00 % for grades ≥ L485 or X70, but ≤ L555 or X80; and up to a maximum of 2.20 % for grades > L555 or X80.

c) Unless otherwise agreed, Nb + V ≤ 0.06 %.

d) Nb + V + Ti ≤ 0.15 %.

e) Unless otherwise agreed, Cu ≤ 0.50 %; Ni ≤ 0.30 %; Cr ≤ 0.30 % and Mo ≤ 0.15 %.

f)Unless otherwise agreed.

g)Unless otherwise agreed, Nb + V + Ti ≤ 0.15 %.

h) Unless otherwise agreed, Cu ≤ 0.50 %; Ni ≤ 0.50 %; Cr ≤ 0.50 % and Mo ≤ 0.50 %.l For PSL 2 pipe grades except those grades to which footnote j) already applies, the following applies: unless otherwise agreed no intentional addition of B is permitted and residual B ≤ 0.001 %.

API 5CT

Requirements for the Results of Tensile Tests for PSL 2 Pipe								
PSL-2	Gr.BM MPa	Gr.X42M MPa	Gr.X46M MPa	Gr.X52M MPa	Gr.X56M MPa	Gr.X60M MPa	Gr.X65M Mpa	Gr.X70M MPa
Ys	245-450	290-495	320-525	360-530	390-545	415-565	450-600	485-635
Tsa	415-655	415-655	435-655	460-760	490-760	520-760	535-760	570-760
WTS	415	415	435	460	490	520	535	570
% El	Min. Elongation shall be determined by Af=1940 A0.2 / U0.9 (Where A=Area of test specimen, U=Min.Specified Tensile Strength.							
YS/TS Ratio	YS/UTS Ratio = 0.93 Maximum							

CVN Absorbed Energy Requirements for Pipe Body of PSL 2 Pipe				
Specified Outside Diameter (D)	Full-size CVN Absorbed Energy min			
	≤ X60M	> X60M to ≤ X65M	> X65M to ≤ X70M	> X70M to ≤ X80M
≤ 508	27	27	27	40
> 508 to 762	27	27	27	40

Tolerances for Diameter and Out-of-roundness for PSL1 & PSL2				
Outside Diameter (mm)	Diameter Tolerances		Out-of-roundness Tolerances	
	Pipe Body	Pipe END	Pipe Body	Pipe END
> 168.3 to 610	± 0.0075D, but max of ±3.2	±0.005D,but max of ±1.6	0.020D	0.015D

Bevel Angle & Root Face	
Bevel angle	30° (+5°,–0 °)
Root Face	1.6 mm (± 0.8 mm)

Straightness & End Straightness
Pipe Straightness 0.2 % of Pipe Length End Straightness Up To 1.5 meter from each end of Pipe ≤3.2 mm

Wall Thickness	
WT (mm)	Tolerance
> 5 to < 15	± 0.1xT mm
≥ 15	± 1.5 mm

PIPE LENGTH	
Minimum Length	10.67 meter
Random Length	12.00 meter
Maximum Length	13.72 meter

Chemical Properties			
ELEMENT	LADLE & PRODUCT ANALYSIS (%) Maximum		
	H40	J55	K55
C	--	--	--
Mn	--	--	--
Mo	--	--	--
Cr	--	--	--
Ni	--	--	--
Cu	--	--	--
P	--	--	--
S	0.03	0.03	0.03
Si	--	--	--

Mechanical Properties				
Mechanical Properties		Requirements		
		H40	J55	K55
Yield strength (MPa)	Minimum	276	379	379
	Maximum			
Tensile strength (MPa)	Minimum	552	552	552
		414	517	655
% Elongation	Min. Elongation shall be determined by e=1942.57 A0.2 / U0.9 Where A=Area of test specimen, U=Min.Specified Tensile Strength.			

Flattening Test		
Grade	D/t Ratio	Distance between plates (mm)
H40	≥16	0.5 X D
	<16	D X (0.830 – 0.0206 D/t)
J55 & K55	≥16	0.65 X D
	3.93 to 16	D X (0.980 – 0.0206 D/t)
	<16	D X (1.104 – 0.0518 D/t)
Where t = Wall thickness & D = Outside Diameter		

Drift Test		
Each length of tubing shall be drift tested throughout its entire length. The ends of the drift mandrel extending beyond the specified cylindrical portion shall be shaped to permit easy entry into the pipe. The drift mandrel shall pass freely through pipe by the use of a manual or power drift procedure. Mandrel shall be as below-		
Size	Length	Diameter
< 9 5/8	152	d – 3.18
≥ 9 5/8 to ≤ 3 3/8	305	d – 3.97
> 13 3/8	305	d – 7.76

Label 1(mm)	Outside Diameter	Wall Thickness of Pipe	Mass
≥4 1/2	+ 1 % of D & '- 0.5% of D	- 12.5% of nominal wall thickness	+ 6.5%,-3.5% of Standard mass for single length

DIMENSIONS & WEIGHTS (MASS) API 5L

Lable	Specified Outside Diameter		Wall Thickness		Mass of Plain end Pipe		Hydro Test Pressure								
I	mm	inch	mm	inch	kg/m	lb/ft	Gr.A	Gr.B	Gr.X42	Gr.X46	Gr.X52	Gr.X56	Gr.X60	Gr.X65	Gr.X70
							Mpa	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa
7-5/8"	193.70	7.63	4.0	0.157	18.71	12.57	6.5	7.6	9.0	9.9	11.2	12.1	12.9	13.9	15.0
			5.0	0.197	23.27	15.63	8.1	9.5	11.2	12.4	13.9	15.1	16.1	17.4	18.8
			5.5	0.217	25.53	17.15	8.9	10.4	12.4	13.6	15.3	16.6	17.7	19.2	20.7
			6.0	0.236	27.77	18.66	9.8	11.4	13.5	14.9	16.7	18.1	19.3	20.9	22.5
			6.5	0.256	30.01	20.16	10.6	12.3	14.6	16.1	18.1	19.6	20.9	22.7	24.4
			7.0	0.276	32.23	21.65	11.4	13.3	15.7	17.3	19.5	21.1	22.5	24.4	26.3
			7.5	0.295	34.44	23.14	12.2	14.2	16.8	18.6	20.9	22.7	24.1	26.1	28.2
			8.0	0.315	36.63	24.61	13.0	15.2	18.0	19.8	22.3	24.2	25.7	27.9	30.0
			8.5	0.335	38.82	26.08	13.8	16.1	19.1	21.1	23.7	25.7	27.3	29.6	31.9
			9.0	0.354	40.99	27.54	14.6	17.1	20.2	22.3	25.1	27.2	28.9	31.4	33.8
			9.5	0.374	43.15	28.99	15.4	18.0	21.3	23.5	26.5	28.7	30.5	33.1	35.7
			10.0	0.394	45.30	30.44	16.3	19.0	22.5	24.8	27.9	30.2	32.1	34.8	37.6
			10.5	0.413	47.44	31.87	17.1	19.9	23.6	26.0	29.3	31.7	33.7	36.6	39.4
			11.0	0.433	49.56	33.30	17.9	20.9	24.7	27.3	30.7	33.2	35.4	38.3	41.3
			11.5	0.453	51.67	34.72	18.7	21.8	25.8	28.5	32.1	34.7	37.0	40.1	43.2
			12.0	0.472	53.77	36.13	19.5	22.8	26.9	29.7	33.5	36.2	38.6	41.8	45.1
8-5/8"	219.10	8.63	4.0	0.157	21.22	14.26	6.5	7.6	9.0	9.9	11.2	12.1	12.9	14.0	15.1
			5.0	0.197	26.40	17.74	8.1	9.5	11.3	12.4	14.0	15.1	16.1	17.5	18.8
			5.5	0.217	28.97	19.47	9.0	10.5	12.4	13.7	15.4	16.6	17.7	19.2	20.7
			6.0	0.236	31.53	21.19	9.8	11.4	13.5	14.9	16.8	18.2	19.3	20.9	22.6
			6.5	0.256	34.08	22.90	10.6	12.4	14.6	16.1	18.2	19.7	20.9	22.7	24.5
			7.0	0.276	36.61	24.60	11.4	13.3	15.8	17.4	19.6	21.2	22.5	24.4	26.3
			7.5	0.295	39.14	26.30	12.2	14.3	16.9	18.6	20.9	22.7	24.1	26.2	28.2
			8.0	0.315	41.65	27.98	13.0	15.2	18.0	19.9	22.3	24.2	25.8	27.9	30.1
			8.5	0.335	44.14	29.66	13.8	16.2	19.1	21.1	23.7	25.7	27.4	29.7	32.0
			9.0	0.354	46.63	31.33	14.7	17.1	20.3	22.3	25.1	27.2	29.0	31.4	33.9
			9.5	0.374	49.10	32.99	15.5	18.1	21.4	23.6	26.5	28.7	30.6	33.2	35.7
			10.0	0.394	51.56	34.65	16.3	19.0	22.5	24.8	27.9	30.3	32.2	34.9	37.6
			10.5	0.413	54.01	36.29	17.1	20.0	23.6	26.1	29.3	31.8	33.8	36.7	39.5
			11.0	0.433	56.45	37.93	17.9	20.9	24.8	27.3	30.7	33.3	35.4	38.4	41.4
			11.5	0.453	58.87	39.56	18.7	21.9	25.9	28.6	32.1	34.8	37.0	40.2	43.3
			12.0	0.472	61.29	41.18	19.6	22.8	27.0	29.8	33.5	36.3	38.6	41.9	45.2

Lable	Specified Outside Diameter		Wall Thickness		Mass of Plain end Pipe		Hydro Test Pressure								
l	mm	inch	mm	inch	kg/m	lb/ft	Gr.A Mpa	Gr.B Mpa	Gr.X42 Mpa	Gr.X46 Mpa	Gr.X52 Mpa	Gr.X56 Mpa	Gr.X60 Mpa	Gr.X65 Mpa	Gr.X70 Mpa
9-5/8"	244.50	9.63	4.0	0.157	23.72	15.94	5.8	6.8	8.1	8.9	10.0	10.8	11.5	12.5	13.5
			5.0	0.197	29.53	19.84	7.3	8.5	10.1	11.1	12.5	13.6	14.4	15.6	16.9
			5.5	0.217	32.42	21.78	8.0	9.4	11.1	12.2	13.8	14.9	15.9	17.2	18.5
			6.0	0.236	35.29	23.71	8.8	10.2	12.1	13.3	15.0	16.3	17.3	18.8	20.2
			6.5	0.256	38.15	25.63	9.5	11.1	13.1	14.5	16.3	17.6	18.8	20.3	21.9
			7.0	0.276	41.00	27.55	10.2	11.9	14.1	15.6	17.5	19.0	20.2	21.9	23.6
			7.5	0.295	43.83	29.45	11.0	12.8	15.1	16.7	18.8	20.3	21.6	23.5	25.3
			8.0	0.315	46.66	31.35	11.7	13.6	16.1	17.8	20.0	21.7	23.1	25.0	27.0
			8.5	0.335	49.47	33.24	12.4	14.5	17.1	18.9	21.3	23.0	24.5	26.6	28.7
			9.0	0.354	52.27	35.12	13.1	15.3	18.1	20.0	22.5	24.4	26.0	28.2	30.3
			9.5	0.374	55.05	36.99	13.9	16.2	19.2	21.1	23.8	25.8	27.4	29.7	32.0
			10.0	0.394	57.83	38.85	14.6	17.0	20.2	22.2	25.0	27.1	28.9	31.3	33.7
			10.5	0.413	60.59	40.71	15.3	17.9	21.2	23.4	26.3	28.5	30.3	32.9	35.4
			11.0	0.433	63.34	42.56	16.1	18.7	22.2	24.5	27.5	29.8	31.7	34.4	37.1
			11.5	0.453	66.08	44.40	16.8	19.6	23.2	25.6	28.8	31.2	33.2	36.0	38.8
			12.0	0.472	68.80	46.23	17.5	20.4	24.2	26.7	30.0	32.5	34.6	37.5	40.5
10-3/4	273.10	10.75	5.0	0.197	33.06	22.21	6.5	7.6	9.0	10.0	11.2	12.1	12.9	14.0	15.1
			5.5	0.217	36.29	24.39	7.2	8.4	9.9	11.0	12.3	13.4	14.2	15.4	16.6
			6.0	0.236	39.52	26.55	7.8	9.2	10.8	12.0	13.4	14.6	15.5	16.8	18.1
			6.5	0.256	42.73	28.71	8.5	9.9	11.7	12.9	14.6	15.8	16.8	18.2	19.6
			7.0	0.276	45.93	30.86	9.2	10.7	12.6	13.9	15.7	17.0	18.1	19.6	21.1
			7.5	0.295	49.12	33.01	9.8	11.4	13.5	14.9	16.8	18.2	19.4	21.0	22.6
			8.0	0.315	52.30	35.14	10.5	12.2	14.4	15.9	17.9	19.4	20.7	22.4	24.2
			8.5	0.335	55.46	37.27	11.1	13.0	15.3	16.9	19.0	20.6	22.0	23.8	25.7
			9.0	0.354	58.61	39.38	11.8	13.7	16.2	17.9	20.2	21.8	23.2	25.2	27.2
			9.5	0.374	61.75	41.49	12.4	14.5	17.1	18.9	21.3	23.1	24.5	26.6	28.7
			10.0	0.394	64.88	43.59	13.1	15.3	18.1	19.9	22.4	24.3	25.8	28.0	30.2
			10.5	0.413	68.00	45.69	13.7	16.0	19.0	20.9	23.5	25.5	27.1	29.4	31.7
			11.0	0.433	71.10	47.77	14.4	16.8	19.9	21.9	24.7	26.7	28.4	30.8	33.2
			11.5	0.453	74.19	49.85	15.0	17.5	20.8	22.9	25.8	27.9	29.7	32.2	34.7
			12.0	0.472	77.26	51.91	15.7	18.3	21.7	23.9	26.9	29.1	31.0	33.6	36.2

DIMENSIONS & WEIGHTS (MASS) API 5L

Lable	Specified Outside Diameter		Wall Thickness		Mass of Plain end Pipe		Hydro Test Pressure								
							Gr.A	Gr.B	Gr.X42	Gr.X46	Gr.X52	Gr.X56	Gr.X60	Gr.X65	Gr.X70
I	mm	inch	mm	inch	kg/m	lb/ft	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa
12-7/25"	312.00	12.28	5.0	0.197	37.85	25.43	5.7	6.7	7.9	8.7	9.8	10.6	11.3	12.3	13.2
			5.5	0.217	41.57	27.93	6.3	7.3	8.7	9.6	10.8	11.7	12.4	13.5	14.5
			6.0	0.236	45.28	30.42	6.9	8.0	9.5	10.5	11.8	12.8	13.6	14.7	15.9
			6.5	0.256	48.97	32.90	7.4	8.7	10.3	11.3	12.8	13.8	14.7	15.9	17.2
			7.0	0.276	52.65	35.37	8.0	9.3	11.1	12.2	13.7	14.9	15.8	17.2	18.5
			7.5	0.295	56.32	37.84	8.6	10.0	11.9	13.1	14.7	15.9	17.0	18.4	19.8
			8.0	0.315	59.97	40.30	9.2	10.7	12.6	13.9	15.7	17.0	18.1	19.6	21.1
			8.5	0.335	63.62	42.74	9.7	11.3	13.4	14.8	16.7	18.1	19.2	20.8	22.5
			9.0	0.354	67.25	45.18	10.3	12.0	14.2	15.7	17.7	19.1	20.4	22.1	23.8
			9.5	0.374	70.87	47.62	10.9	12.7	15.0	16.6	18.6	20.2	21.5	23.3	25.1
			10.0	0.394	74.47	50.04	11.4	13.3	15.8	17.4	19.6	21.3	22.6	24.5	26.4
			10.5	0.413	78.07	52.45	12.0	14.0	16.6	18.3	20.6	22.3	23.7	25.7	27.7
			11.0	0.433	81.65	54.86	12.6	14.7	17.4	19.2	21.6	23.4	24.9	27.0	29.1
			11.5	0.453	85.22	57.26	13.2	15.4	18.2	20.1	22.6	24.4	26.0	28.2	30.4
			12.0	0.472	88.78	59.65	13.7	16.0	19.0	20.9	23.5	25.5	27.1	29.4	31.7
12-3/4"	323.90	12.75	5.0	0.197	39.32	26.42	5.5	6.4	7.6	8.4	9.4	10.2	10.9	11.8	12.7
			5.5	0.217	43.18	29.02	6.1	7.1	8.4	9.2	10.4	11.3	12.0	13.0	14.0
			6.0	0.236	47.04	31.60	6.6	7.7	9.1	10.1	11.3	12.3	13.1	14.2	15.3
			6.5	0.256	50.88	34.18	7.2	8.4	9.9	10.9	12.3	13.3	14.2	15.4	16.5
			7.0	0.276	54.70	36.76	7.7	9.0	10.7	11.8	13.2	14.3	15.2	16.5	17.8
			7.5	0.295	58.52	39.32	8.3	9.6	11.4	12.6	14.2	15.4	16.3	17.7	19.1
			8.0	0.315	62.32	41.87	8.8	10.3	12.2	13.4	15.1	16.4	17.4	18.9	20.4
			8.5	0.335	66.11	44.42	9.4	10.9	12.9	14.3	16.1	17.4	18.5	20.1	21.6
			9.0	0.354	69.89	46.96	9.9	11.6	13.7	15.1	17.0	18.4	19.6	21.3	22.9
			9.5	0.374	73.65	49.49	10.5	12.2	14.5	16.0	17.9	19.4	20.7	22.4	24.2
			10.0	0.394	77.41	52.01	11.0	12.9	15.2	16.8	18.9	20.5	21.8	23.6	25.5
			10.5	0.413	81.15	54.52	11.6	13.5	16.0	17.6	19.8	21.5	22.9	24.8	26.7
			11.0	0.433	84.88	57.03	12.1	14.1	16.7	18.5	20.8	22.5	24.0	26.0	28.0
			11.5	0.453	88.59	59.53	12.7	14.8	17.5	19.3	21.7	23.5	25.0	27.2	29.3
			12.0	0.472	92.30	62.01	13.2	15.4	18.3	20.2	22.7	24.6	26.1	28.3	30.5
			13.0	0.512	99.67	66.97	14.3	16.7	19.8	21.8	24.6	26.6	28.3	30.7	33.1
13-3/8"	339.70	13.37	5.0	0.197	41.27	27.73	5.3	6.1	7.3	8.0	9.0	9.8	10.4	11.3	12.1
			5.5	0.217	45.33	30.46	5.8	6.7	8.0	8.8	9.9	10.7	11.4	12.4	13.3
			6.0	0.236	49.37	33.17	6.3	7.4	8.7	9.6	10.8	11.7	12.5	13.5	14.6
			6.5	0.256	53.41	35.89	6.8	8.0	9.4	10.4	11.7	12.7	13.5	14.6	15.8
			7.0	0.276	57.43	38.59	7.4	8.6	10.2	11.2	12.6	13.7	14.5	15.8	17.0
			7.5	0.295	61.44	41.28	7.9	9.2	10.9	12.0	13.5	14.6	15.6	16.9	18.2
			8.0	0.315	65.44	43.97	8.4	9.8	11.6	12.8	14.4	15.6	16.6	18.0	19.4
			8.5	0.335	69.42	46.65	8.9	10.4	12.3	13.6	15.3	16.6	17.7	19.1	20.6
			9.0	0.354	73.40	49.31	9.5	11.0	13.1	14.4	16.2	17.6	18.7	20.3	21.8
			9.5	0.374	77.36	51.98	10.0	11.6	13.8	15.2	17.1	18.5	19.7	21.4	23.1
			10.0	0.394	81.30	54.63	10.5	12.3	14.5	16.0	18.0	19.5	20.8	22.5	24.3
			10.5	0.413	85.24	57.27	11.0	12.9	15.2	16.8	18.9	20.5	21.8	23.6	25.5
			11.0	0.433	89.16	59.91	11.6	13.5	16.0	17.6	19.8	21.5	22.8	24.8	26.7
			11.5	0.453	93.07	62.54	12.1	14.1	16.7	18.4	20.7	22.4	23.9	25.9	27.9
			12.0	0.472	96.97	65.16	12.6	14.7	17.4	19.2	21.6	23.4	24.9	27.0	29.13
			13.0	0.512	104.73	70.37	13.7	15.9	18.9	20.8	23.4	25.4	27.0	29.3	31.6

Lable	Specified Outside Diameter		Wall Thickness		Mass of Plain end Pipe		Hydro Test Pressure								
l	mm	inch	mm	inch	kg/m	lb/ft	Gr.A	Gr.B	Gr.X42	Gr.X46	Gr.X52	Gr.X56	Gr.X60	Gr.X65	Gr.X70
							Mpa	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa
14"	355.60	14.00	5.5	0.217	47.48	31.90	5.5	6.4	7.6	8.4	9.5	10.3	10.9	11.8	12.8
			6.0	0.236	51.73	34.76	6.0	7.0	8.3	9.2	10.3	11.2	11.9	12.9	13.9
			6.5	0.256	55.96	37.60	6.5	7.6	9.0	9.9	11.2	12.1	12.9	14.0	15.1
			7.0	0.276	60.18	40.43	7.0	8.2	9.7	10.7	12.0	13.1	13.9	15.1	16.2
			7.5	0.295	64.38	43.26	7.5	8.8	10.4	11.5	12.9	14.0	14.9	16.1	17.4
			8.0	0.315	68.57	46.08	8.0	9.4	11.1	12.2	13.8	14.9	15.9	17.2	18.5
			8.5	0.335	72.76	48.88	8.5	10.0	11.8	13.0	14.6	15.8	16.9	18.3	19.7
			9.0	0.354	76.92	51.69	9.0	10.5	12.5	13.8	15.5	16.8	17.9	19.4	20.9
			9.5	0.374	81.08	54.48	9.5	11.1	13.2	14.5	16.3	17.7	18.8	20.4	22.0
			10.0	0.394	85.22	57.26	10.0	11.7	13.9	15.3	17.2	18.6	19.8	21.5	23.2
			10.5	0.413	89.36	60.04	10.5	12.3	14.6	16.1	18.1	19.6	20.8	22.6	24.3
			11.0	0.433	93.48	62.81	11.0	12.9	15.3	16.8	18.9	20.5	21.8	23.7	25.5
			11.5	0.453	97.58	65.57	11.5	13.5	15.9	17.6	19.8	21.4	22.8	24.7	26.7
			12.0	0.472	101.68	68.32	12.0	14.1	16.6	18.4	20.7	22.4	23.8	25.8	27.8
			12.5	0.492	105.76	71.06	12.5	14.6	17.3	19.1	21.5	23.3	24.8	26.9	29.0
14-21/25"	377.00	14.84	6.0	0.236	54.89	36.88	5.7	6.6	7.8	8.7	9.7	10.6	11.2	12.2	13.1
			6.5	0.256	59.39	39.90	6.2	7.2	8.5	9.4	10.6	11.4	12.2	13.2	14.2
			7.0	0.276	63.87	42.91	6.6	7.7	9.2	10.1	11.4	12.3	13.1	14.2	15.3
			7.5	0.295	68.34	45.92	7.1	8.3	9.8	10.8	12.2	13.2	14.0	15.2	16.4
			8.0	0.315	72.80	48.91	7.6	8.8	10.5	11.5	13.0	14.1	15.0	16.2	17.5
			8.5	0.335	77.24	51.90	8.0	9.4	11.1	12.3	13.8	14.9	15.9	17.2	18.6
			9.0	0.354	81.67	54.88	8.5	9.9	11.8	13.0	14.6	15.8	16.8	18.3	19.7
			9.5	0.374	86.09	57.85	9.0	10.5	12.4	13.7	15.4	16.7	17.8	19.3	20.8
			10.0	0.394	90.50	60.81	9.5	11.0	13.1	14.4	16.2	17.6	18.7	20.3	21.9
			10.5	0.413	94.90	63.76	9.9	11.6	13.7	15.2	17.0	18.5	19.6	21.3	23.0
			11.0	0.433	99.28	66.71	10.4	12.2	14.4	15.9	17.9	19.3	20.6	22.3	24.1
			11.5	0.453	103.65	69.64	10.9	12.7	15.0	16.6	18.7	20.2	21.5	23.3	25.2
			12.0	0.472	108.01	72.57	11.4	13.3	15.7	17.3	19.5	21.1	22.5	24.4	26.2
			12.5	0.492	112.36	75.49	11.8	13.8	16.3	18.0	20.3	22.0	23.4	25.4	27.3
			13.0	0.512	116.69	78.40	12.3	14.4	17.0	18.8	21.1	22.9	24.3	26.4	28.4
16"	406.40	16.00	6.0	0.236	59.24	39.81	5.3	6.1	7.3	8.0	9.0	9.8	10.4	11.3	12.2
			6.5	0.256	64.10	43.07	5.7	6.7	7.9	8.7	9.8	10.6	11.3	12.2	13.2
			7.0	0.276	68.94	46.32	6.1	7.2	8.5	9.4	10.5	11.4	12.2	13.2	14.2
			7.5	0.295	73.78	49.57	6.6	7.7	9.1	10.0	11.3	12.2	13.0	14.1	15.2
			8.0	0.315	78.60	52.81	7.0	8.2	9.7	10.7	12.0	13.1	13.9	15.1	16.2
			8.5	0.335	83.40	56.04	7.5	8.7	10.3	11.4	12.8	13.9	14.8	16.0	17.2
			9.0	0.354	88.20	59.26	7.9	9.2	10.9	12.0	13.6	14.7	15.6	16.9	18.3
			9.5	0.374	92.98	62.47	8.3	9.7	11.5	12.7	14.3	15.5	16.5	17.9	19.3
			10.0	0.394	97.75	65.68	8.8	10.2	12.1	13.4	15.1	16.3	17.4	18.8	20.3
			10.5	0.413	102.51	68.88	9.2	10.8	12.7	14.1	15.8	17.1	18.2	19.8	21.3
			11.0	0.433	107.26	72.07	9.7	11.3	13.3	14.7	16.6	17.9	19.1	20.7	22.3
			11.5	0.453	111.99	75.25	10.1	11.8	14.0	15.4	17.3	18.8	20.0	21.6	23.3
			12.0	0.472	116.71	78.42	10.5	12.3	14.6	16.1	18.1	19.6	20.8	22.6	24.3
			12.5	0.492	121.42	81.58	11.0	12.8	15.2	16.7	18.8	20.4	21.7	23.5	25.4
			13.0	0.512	126.12	84.74	11.4	13.3	15.8	17.4	19.6	21.2	22.6	24.5	26.4

DIMENSIONS & WEIGHTS (MASS) API 5L

Lable	Specified Outside Diameter		Wall Thickness		Mass of Plain end Pipe		Hydro Test Pressure								
l	mm	inch	mm	inch	kg/m	lb/ft	Gr.A	Gr.B	Gr.X42	Gr.X46	Gr.X52	Gr.X56	Gr.X60	Gr.X65	Gr.X70
							Mpa	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa
16-3/4"	426.00	16.77	6.0	0.236	62.14	41.75	5.0	5.9	6.9	7.7	8.6	9.3	9.9	10.8	11.6
			6.5	0.256	67.24	45.18	5.4	6.4	7.5	8.3	9.3	10.1	10.8	11.7	12.6
			7.0	0.276	72.33	48.60	5.9	6.8	8.1	8.9	10.1	10.9	11.6	12.6	13.5
			7.5	0.295	77.40	52.01	6.3	7.3	8.7	9.6	10.8	11.7	12.4	13.5	14.5
			8.0	0.315	82.46	55.41	6.7	7.8	9.3	10.2	11.5	12.5	13.2	14.4	15.5
			8.5	0.335	87.51	58.80	7.1	8.3	9.8	10.9	12.2	13.2	14.1	15.3	16.5
			9.0	0.354	92.55	62.18	7.5	8.8	10.4	11.5	12.9	14.0	14.9	16.2	17.4
			9.5	0.374	97.57	65.56	8.0	9.3	11.0	12.1	13.6	14.8	15.7	17.1	18.4
			10.0	0.394	102.59	68.93	8.4	9.8	11.6	12.8	14.4	15.6	16.6	18.0	19.4
			10.5	0.413	107.59	72.29	8.8	10.3	12.2	13.4	15.1	16.3	17.4	18.9	20.3
			11.0	0.433	112.57	75.64	9.2	10.8	12.7	14.0	15.8	17.1	18.2	19.8	21.3
			11.5	0.453	117.55	78.98	9.6	11.2	13.3	14.7	16.5	17.9	19.0	20.7	22.3
			12.0	0.472	122.51	82.32	10.1	11.7	13.9	15.3	17.2	18.7	19.9	21.5	23.2
			12.5	0.492	127.46	85.64	10.5	12.2	14.5	16.0	18.0	19.5	20.7	22.4	24.2
			13.0	0.512	132.40	88.96	10.9	12.7	15.0	16.6	18.7	20.2	21.5	23.3	25.2
17-1/2"	445.00	17.52	6.0	0.236	64.95	43.64	4.8	5.6	6.6	7.3	8.3	8.9	9.5	10.3	11.1
			6.5	0.256	70.29	47.23	5.2	6.1	7.2	7.9	8.9	9.7	10.3	11.2	12.0
			7.0	0.276	75.61	50.80	5.6	6.6	7.8	8.6	9.6	10.4	11.1	12.0	13.0
			7.5	0.295	80.92	54.37	6.0	7.0	8.3	9.2	10.3	11.2	11.9	12.9	13.9
			8.0	0.315	86.21	57.93	6.4	7.5	8.9	9.8	11.0	11.9	12.7	13.8	14.8
			8.5	0.335	91.49	61.48	6.8	8.0	9.4	10.4	11.7	12.7	13.5	14.6	15.7
			9.0	0.354	96.77	65.02	7.2	8.4	10.0	11.0	12.4	13.4	14.3	15.5	16.7
			9.5	0.374	102.02	68.55	7.6	8.9	10.5	11.6	13.1	14.2	15.1	16.3	17.6
			10.0	0.394	107.27	72.08	8.0	9.4	11.1	12.2	13.8	14.9	15.9	17.2	18.5
			10.5	0.413	112.51	75.59	8.4	9.8	11.6	12.8	14.4	15.6	16.6	18.1	19.5
			11.0	0.433	117.73	79.10	8.8	10.3	12.2	13.4	15.1	16.4	17.4	18.9	20.4
			11.5	0.453	122.94	82.60	9.2	10.8	12.7	14.1	15.8	17.1	18.2	19.8	21.3
			12.0	0.472	128.13	86.09	9.6	11.2	13.3	14.7	16.5	17.9	19.0	20.6	22.2
			12.5	0.492	133.32	89.58	10.0	11.7	13.8	15.3	17.2	18.6	19.8	21.5	23.2

Lable	Specified Outside Diameter		Wall Thickness		Mass of Plain end Pipe		Hydro Test Pressure								
l	mm	inch	mm	inch	kg/m	lb/ft	Gr.A Mpa	Gr.B Mpa	Gr.X42 Mpa	Gr.X46 Mpa	Gr.X52 Mpa	Gr.X56 Mpa	Gr.X60 Mpa	Gr.X65 Mpa	Gr.X70 Mpa
			13.0	0.512	138.49	93.05	10.4	12.2	14.4	15.9	17.9	19.4	20.6	22.3	24.1
18"	457.00	17.99	6.0	0.236	66.73	44.84	4.7	5.5	6.5	7.1	8.0	8.7	9.3	10.0	10.8
			6.5	0.256	72.21	48.52	5.1	5.9	7.0	7.7	8.7	9.4	10.0	10.9	11.7
			7.0	0.276	77.68	52.19	5.5	6.4	7.6	8.3	9.4	10.2	10.8	11.7	12.6
			7.5	0.295	83.14	55.86	5.9	6.8	8.1	8.9	10.0	10.9	11.6	12.6	13.5
			8.0	0.315	88.58	59.52	6.2	7.3	8.6	9.5	10.7	11.6	12.4	13.4	14.4
			8.5	0.335	94.01	63.17	6.6	7.7	9.2	10.1	11.4	12.3	13.1	14.2	15.3
			9.0	0.354	99.43	66.81	7.0	8.2	9.7	10.7	12.1	13.1	13.9	15.1	16.2
			9.5	0.374	104.84	70.44	7.4	8.7	10.2	11.3	12.7	13.8	14.7	15.9	17.1
			10.0	0.394	110.23	74.06	7.8	9.1	10.8	11.9	13.4	14.5	15.4	16.7	18.0
			10.5	0.413	115.61	77.68	8.2	9.6	11.3	12.5	14.1	15.2	16.2	17.6	18.9
			11.0	0.433	120.98	81.29	8.6	10.0	11.9	13.1	14.7	16.0	17.0	18.4	19.8
			11.5	0.453	126.34	84.89	9.0	10.5	12.4	13.7	15.4	16.7	17.8	19.3	20.7
			12.0	0.472	131.68	88.48	9.4	10.9	12.9	14.3	16.1	17.4	18.5	20.1	21.6
			12.5	0.492	137.02	92.06	9.8	11.4	13.5	14.9	16.7	18.1	19.3	20.9	22.6
			13.0	0.512	142.34	95.64	10.2	11.8	14.0	15.5	17.4	18.9	20.1	21.8	23.5
			13.5	0.531	147.65	99.20	10.5	12.3	14.6	16.1	18.1	19.6	20.8	22.6	24.4
			14.0	0.551	152.94	102.76	10.9	12.8	15.1	16.7	18.7	20.3	21.6	23.4	25.3
18-5/8"	473.00	18.62	6.5	0.256	74.78	50.24	4.9	5.7	6.8	7.5	8.4	9.1	9.7	10.5	11.3
			7.0	0.276	80.44	54.05	5.3	6.2	7.3	8.1	9.1	9.8	10.4	11.3	12.2
			7.5	0.295	86.09	57.85	5.7	6.6	7.8	8.6	9.7	10.5	11.2	12.1	13.1
			8.0	0.315	91.74	61.64	6.0	7.0	8.3	9.2	10.4	11.2	11.9	12.9	13.9
			8.5	0.335	97.36	65.42	6.4	7.5	8.9	9.8	11.0	11.9	12.7	13.7	14.8
			9.0	0.354	102.98	69.19	6.8	7.9	9.4	10.4	11.6	12.6	13.4	14.6	15.7
			9.5	0.374	108.58	72.96	7.2	8.4	9.9	10.9	12.3	13.3	14.2	15.4	16.6
			10.0	0.394	114.18	76.71	7.5	8.8	10.4	11.5	12.9	14.0	14.9	16.2	17.4
			10.5	0.413	119.76	80.46	7.9	9.2	10.9	12.1	13.6	14.7	15.7	17.0	18.3
			11.0	0.433	125.32	84.20	8.3	9.7	11.5	12.7	14.2	15.4	16.4	17.8	19.2
			11.5	0.453	130.88	87.94	8.7	10.1	12.0	13.2	14.9	16.1	17.2	18.6	20.0

Lable	Specified Outside Diameter		Wall Thickness		Mass of Plain end Pipe		Hydro Test Pressure								
l	mm	inch	mm	inch	kg/m	lb/ft	Gr.A	Gr.B	Gr.X42	Gr.X46	Gr.X52	Gr.X56	Gr.X60	Gr.X65	Gr.X70
							Mpa	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa
			12.0	0.472	136.42	91.66	9.1	10.6	12.5	13.8	15.5	16.8	17.9	19.4	20.9
			12.5	0.492	141.95	95.38	9.4	11.0	13.0	14.4	16.2	17.5	18.6	20.2	21.8
			13.0	0.512	147.47	99.08	9.8	11.4	13.5	15.0	16.8	18.2	19.4	21.0	22.7
			13.5	0.531	152.97	102.78	10.2	11.9	14.1	15.5	17.5	18.9	20.1	21.8	23.5
			14.0	0.551	158.47	106.47	10.6	12.3	14.6	16.1	18.1	19.6	20.9	22.6	24.4
			14.5	0.571	163.95	110.16	10.9	12.8	15.1	16.7	18.8	20.3	21.6	23.5	25.3
			15.0	0.591	169.41	113.83	11.3	13.2	15.6	17.3	19.4	21.0	22.4	24.3	26.1
20"	508.00	20.00	6.5	0.256	80.39	54.01	4.6	5.3	6.3	7.0	7.8	8.5	9.0	9.8	10.5
			7.0	0.276	86.48	58.11	4.9	5.7	6.8	7.5	8.4	9.1	9.7	10.5	11.4
			7.5	0.295	92.57	62.20	5.3	6.1	7.3	8.0	9.0	9.8	10.4	11.3	12.2
			8.0	0.315	98.64	66.28	5.6	6.6	7.8	8.6	9.6	10.4	11.1	12.0	13.0
			8.5	0.335	104.70	70.35	6.0	7.0	8.2	9.1	10.2	11.1	11.8	12.8	13.8
			9.0	0.354	110.75	74.41	6.3	7.4	8.7	9.6	10.8	11.7	12.5	13.6	14.6
			9.5	0.374	116.78	78.47	6.7	7.8	9.2	10.2	11.4	12.4	13.2	14.3	15.4
			10.0	0.394	122.81	82.51	7.0	8.2	9.7	10.7	12.0	13.1	13.9	15.1	16.2
			10.5	0.413	128.82	86.55	7.4	8.6	10.2	11.2	12.6	13.7	14.6	15.8	17.0
			11.0	0.433	134.82	90.58	7.7	9.0	10.7	11.8	13.3	14.4	15.3	16.6	17.9
			11.5	0.453	140.80	94.61	8.1	9.4	11.2	12.3	13.9	15.0	16.0	17.3	18.7
			12.0	0.472	146.78	98.62	8.4	9.8	11.6	12.9	14.5	15.7	16.7	18.1	19.5
			12.5	0.492	152.74	102.62	8.8	10.2	12.1	13.4	15.1	16.3	17.4	18.8	20.3
			13.0	0.512	158.69	106.62	9.1	10.7	12.6	13.9	15.7	17.0	18.1	19.6	21.1
			13.5	0.531	164.62	110.61	9.5	11.1	13.1	14.5	16.3	17.6	18.7	20.3	21.9
			14.0	0.551	170.55	114.59	9.8	11.5	13.6	15.0	16.9	18.3	19.4	21.1	22.7
			14.5	0.571	176.46	118.56	10.2	11.9	14.1	15.5	17.5	18.9	20.1	21.8	23.5
			15.0	0.591	182.36	122.53	10.5	12.3	14.6	16.1	18.1	19.6	20.8	22.6	24.3
			15.5	0.610	188.25	126.48	10.9	12.7	15.0	16.6	18.7	20.2	21.5	23.3	25.2
			16.0	0.630	194.12	130.43	11.2	13.1	15.5	17.1	19.3	20.9	22.2	24.1	26.0

Building a culture of continuous learning and performance

APPLICATIONS

- Agriculture, Irrigation
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- Tubular Poles
- Engineering General Purpose

Certification and Awards

American Petroleum Institute

REGISTRATION NO. Q1-4494

Certificate of Registration

The American Petroleum Institute certifies that the quality management system of

AJMAL STEEL TUBES & PIPES INDUSTRIES L.L.C
ICAD-2 (399HR8)
Mussaffah, Abu Dhabi
United Arab Emirates

has been assessed by the American Petroleum Institute and found to be in conformance with the following:

API Specification Q1

The scope of this registration and the approved quality management system applies to the:

Manufacture and Supply of Pipes for the Oil and Gas Industry

API approves the organization's justification for excluding:

Design and Development; Servicing

Effective Date:	**MAY 19, 2021**
Expiration Date:	**MAY 19, 2024**
Registered Since:	**MAY 19, 2021**

Vice President of Global Industry Services

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Mussaffah, Abu Dhabi
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QMS Exclusions: Design and Development; Servicing

Effective Date: MAY 19, 2021
Expiration Date: MAY 19, 2024

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QMS Exclusions: Design and Development; Servicing

Effective Date: MAY 19, 2021
Expiration Date: MAY 19, 2024

To verify the authenticity of this license, go to www.api.org/compositelist.

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DAS CERTIFICATION

DAS CERTIFICATION

Quality Management System

Certificate of Approval

This is to certify that the QMS of

Ajmal Steel Tubes & Pipes Industries L.L.C

PO Box:105361, ICAD - 1, Mussafah, Abu Dhabi,
United Arab Emirates

Has been assessed and found to meet the requirements of

ISO 9001:2015

This certificate is valid for the following scope of operations

Manufacture and Supply of Steel Tubes, Pipes, Sheets, GI Sheets and GI Pipes

Authorised by:

Stan Wright
Director

Date of Certificate Issue: 25 September 2018
Certificate Valid Until: 24 September 2021

Recertification audit before 25 August 2021. Certified since 25 September 2018.
This certificate is the property of SN Registrars (Holdings) Limited and remains valid subject to satisfactory annual Surveillance audits.

SN Registrars (Holdings) Limited
Registration House, 22b Church Street,
Rushden, Northamptonshire,
NN10 9YT, UK
Tel: +44 (0) 1933 381859
Email: enquiries@dascertification.co.uk
Web: www.dascertification.co.uk
Company Number: 07659067

Certificate Number: DAS 74985951/28/Q Rev: 001

IAF

ISO 9001

UKAS MANAGEMENT SYSTEMS

Dedal Attestation & Certification

CERTIFICATE

of Conformity No. 178

Non-Alloy steel tubes suitable for welding and threading material quality: S 195T

produced by
Ajmal Steel Tubes & Pipes Industries L.L.C.
P.O.Box: 93323, ICAD-2, Mussaffah, Abu Dhabi, U.A.E

and produced in the manufacturing plant of
Ajmal Steel Tubes & Pipes Industries L.L.C.
P.O.Box: 93323, ICAD-2, Mussaffah, Abu Dhabi, U.A.E

"Dedal – Attestation and Certification" Ltd., as a European Third Party Authority, verifies that on the basis of the results of the review of the Factory Production Control Documentation and Initial Type Testing, the product: **Non-Alloy steel tubes suitable for welding and threading** with tested characteristics acc. to ITT/AJS/EN10255/20.12.2019 (**System of Attestation of Conformity 4**, acc. to Regulation 305/2011 Construction Products)

corresponds to the requirements of the following standard:

EN 10255:2004+A1:2007

This certificate was first issued on 18.02.2020 and remains valid as long as the test methods and/or factory production control requirements included in the standard do not change and the product, and the manufacturing conditions in the plant are not modified significantly. This certificate should be reissued not later than 18.02.2024
The validity of this certificate can be verified in the register on www.dedal-bg.net.

Embossed stamp of "Dedal - A&C" Ltd.

Dedal Attestation & Certification

Manager:

dipl. eng. Anna Vasileva

Issued:
Burgas, 04 March 2021

Dedal Attestation & Certification

Notified body No. 1922
Bulgaria, 8230 Nesebar
Mladost №50

CERTIFICATE

of Conformity of the Factory Production Control

1922 - CPR - 1319

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product:

Hot finished structural hollow sections of non-alloy and fine grain steels

(The relevant size ranges are described in Annex I to 1922-CPR-1319, that is an integral part of this certificate)

placed on the market under the name or trade mark of
Ajmal Steel Tubes & Pipes Industries L.L.C.
P.O.Box: 93323, ICAD-2, Mussaffah, Abu Dhabi, U.A.E

and produced in the manufacturing plant
Ajmal Steel Tubes & Pipes Industries L.L.C.
P.O.Box: 93323, ICAD-2, Mussaffah, Abu Dhabi, U.A.E

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

EN 10210-1:2006

under system 2+ are applied and that the factory production control is assessed to be in conformity with the applicable requirements.

This certificate was first issued on 18.02.2020 and will remain valid until 18.02.2024 as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body. The certificate is supported through annual surveillance audit and is reissued after three surveillance audits. The validity of the certificate may be confirmed in the CE register at the web address www.dedal-bg.net.

CE IAF ИА "БСА"

Embossed stamp of "Dedal - A&C" Ltd.

Manager: Dedal Attestation & Certification

dipl. eng. Anna Vasileva

Issued:
Burgas, 04 March 2021

Dedal Attestation & Certification

Notified body No. 1922
Bulgaria, 8230 Nesebar
Mladost #50

ANNEX I TO CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL 1922-CPR-1319/ 04.03.2021

Specification	Size (mm)		Grade	Type of pipe manufacturing
	Minimum	Maximum		
EN 10210	21.3 x 2.3	508 x 16.0	S235JRH, S275J0H, S275J2H, S355J0H, S355J2H, S355K2H, S275NH, S275NLH, S355NH, S355NLH, S420NH, S420NLH, S460NH & S460NLH	Circular Hollow
	40 x 40 x 2.6	400 x 400 x 16.0		Square Hollow Section
	50 x 30 x 2.6	400 x 200 x 16.0		Rectangular Hollow Section

This certificate was first issued on 18.02.2020 and will remain valid until 18.02.2024 as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body. The certificate is supported through annual surveillance audit and is reissued after three surveillance audits. The validity of the certificate may be confirmed in the CE register at the web address www.dedal-bg.net.

CE IAF ИА "БСА"

Embossed stamp of "Dedal - A&C" Ltd.

Manager: Dedal Attestation & Certification

dipl. eng. Anna Vasileva

Issued:
Burgas, 04 March 2021

Dedal Attestation & Certification

Notified body No. 1922
Bulgaria, 8230 Nesebar
Mladost №50

CERTIFICATE

of Conformity of the Factory Production Control

1922 - CPR - 1318

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product:

Cold formed welded structural hollow sections of non-alloy and fine grain steels

(The relevant size ranges are described in Annex I to 1922-CPR-1318, that is an integral part of this certificate)

placed on the market under the name or trade mark of
Ajmal Steel Tubes & Pipes Industries L.L.C.
P.O.Box: 93323, ICAD-2, Mussaffah, Abu Dhabi, U.A.E

and produced in the manufacturing plant
Ajmal Steel Tubes & Pipes Industries L.L.C.
P.O.Box: 93323, ICAD-2, Mussaffah, Abu Dhabi, U.A.E

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

EN 10219-1:2006

under system 2+ are applied and that the factory production control is assessed to be in conformity with the applicable requirements.

This certificate was first issued on 18.02.2020 and will remain valid until 18.02.2024 as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body. The certificate is supported through annual surveillance audit and is reissued after three surveillance audits. The validity of the certificate may be confirmed in the CE register at the web address www.dedal-bg.net.

CE IAF ИА "БСА"

Embossed stamp of "Dedal - A&C" Ltd.

Dedal Attestation & Certification

Manager:

dipl. eng. Anna Vasileva

Issued:
Burgas, 04 March 2021

Dedal Attestation & Certification

Notified body No. 1922
Bulgaria, 8230 Nesebar
Mladost #50

ANNEX I TO CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL 1922-CPR-1318/ 04.03.2021

Specification	Size (mm)		Grade	Type of pipe manufacturing
	Minimum	Maximum		
EN 10219	21.3 x 2.0	508 x 16.0	S235JRH, S275JOH, S275J2H, S355JOH, S355J2H, S355K2H, S275NH, S275NLH, S355NH, S355NLH, S460NH, S460NLH, S275MH, S275MLH, S355MH, S355MLH, S420MH, S420MLH, S460MH & S460MLH	Circular Hollow
	20 x 20 x 2.0	400 x 400 x 16.0		Square Hollow Section
	40 x 20 x 2.0	400 x 300 x 16.0		Rectangular Hollow Section

This certificate was first issued on 18.02.2020 and will remain valid until 18.02.2024 as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body. The certificate is supported through annual surveillance audit and is reissued after three surveillance audits. The validity of the certificate may be confirmed in the CE register at the web address www.dedal-bg.net.

CE IAF ИА "БСА"

Embossed stamp of "Dedal - A&C" Ltd.

Dedal Attestation & Certification

Manager:

dipl. eng. Anna Vasileva

Issued:
Burgas, 04 March 2021

SWISSCERT

Certificate

SWISS CERT Pvt. Ltd. hereby Certify that the Management System of

AJMAL STEEL TUBES & PIPES INDUSTRIES LLC
ICAD 01 & 02- Musaffah- Abu Dhabi

has been assessed and found to be in accordance with the requirements of

Occupational Health & Safety Management System

ISO 45001:2018

and scope of activities are detailed below

- **MANUFACTURING OF NON FERROUS METAL SECTIONS, CAST IRON TUBES, PIPES, HOLLOW PROFILES & FITTINGS, METAL INDUSTRIAL FRAMEWORKS.**
- **METAL COATING.**

This Certificate is valid for a period of Three years from: 02.07.2020 until: 01.07.2023
And remains valid Subject to satisfactory completion of surveillance audits

Certificate Number: ISO 45001 / 368
Rev. No: 00

ISO 45001

Director

SWISS CERT PVT. LTD.
412, WEST SKY TOWER, NETAJI SUBHASH PLACE, PITAMPURA, DELHI - 110 034, INDIA
This certificate is the property of SWISS CERT PRIVATE LIMITED and shall be returned upon request.
All Interested parties are advised to verify the validity of the certificate from SWISSCERT (info@swisoindia.com)

SWISSCERT

Certificate

SWISS CERT Pvt. Ltd. hereby certify that the Environmental Management System of

AJMAL STEEL TUBES & PIPES INDUSTRIES LLC
ICAD 01 & 02- Musaffah- Abu Dhabi

has been assessed and found to be in accordance with the requirements of

Environmental Management System ISO 14001:2015

and scope of activities are detailed below as per IAF/NACE Code : 17 / 24.4, 28.4

- **MANUFACTURING OF NON FERROUS METAL SECTIONS, CAST IRON TUBES, PIPES, HOLLOW PROFILES & FITTINGS, METAL INDUSTRIAL FRAMEWORKS.**
- **METAL COATING.**

This Certificate is valid for a period of Three years from: 02.07.2020 until: 01.07.2023
And remains valid Subject to satisfactory completion of surveillance audits

Certificate Number: 211256
Rev. No: 00

IAF

eiac
004-CB-EMS

ISO 14001

Director

SWISS CERT PVT. LTD.
412, WEST SKY TOWER, NETAJI SUBHASH PLACE, PITAMPURA, DELHI - 110 034, INDIA
This certificate is the property of SWISS CERT PRIVATE LIMITED and shall be returned upon request.
All Interested parties are advised to verify the validity of the certificate from SWISSCERT (info@swisoindia.com)

Certificate of Compliance

This is to certify that the technical documentation for the following products

Non-alloy steel tubes with specified room temperature properties
Welded steel tubes for pressure purpose

Manufactured and Supplied by

Ajmal Steel Tubes and Pipes Industries LLC
Site: P.O. Box 93323, Mussaffah ICAD-II-(399HR8), Abu Dhabi, UAE.

complies with the requirements applicable to it. The factory production control and technical documentation has been reviewed and found to comply with

EN 10217-1:2019+A1:2005

and Essential Safety Requirement(s) (ESR) of the Pressure Equipment Directive 97/23/EC as declared by organization on Declaration of Conformity and ITT.

The product description, documents, assessment procedures and evaluations of the examination are presented in the Technical Construction File (TCF) retained at manufacturer's place.

This Certificate is issued under the following conditions:

1. The Certificate validity is conditioned by the positive results of the annual surveillance audit and certificates reissued after each surveillance audit.
2. The Certificate remains valid until the manufacturing conditions, the quality systems or relevant legislation are changed.
3. Any significant changes in the design or process used to manufacture the product / equipment or revision to the directive/s or standard/s referred above may render this certificate invalid.

This Certificate of compliance is for the exclusive use of ECA's client and is provided pursuant to the agreement between ECA and its Client. ECA's responsibility and liability are limited to the terms and conditions of the agreement. ECA assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate of compliance. Only the Client is authorized to permit copying or distribution of this Certificate of compliance. Any use of the ECA name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by ECA. As applicable, the observations and test/inspection results referenced in this Certificate of compliance are relevant only to the sample tested/inspected.

Signed by	:Tech. Manager
Cert. No.	:CE/1155/19/02
First Issue Date	:23 January 2020
Issue Date	:23 January 2020
Validity	:3 Years
Reissue Due Date	:23 January 2021

EUROPEAN COMPLIANCE ASSESSMENT Level 2000, Bastion Tower, 5 Place Du Champ De Mars, B -1050, Brussels, Belgium Web : www.eca.co.in

Annexure to Certificate

No. CE/1155/19/02

Issued for the company:

Ajmal Steel Tubes and Pipes Industries LLC

Site: P.O. Box 93323, Mussaffah ICAD-II-(399HR8), Abu Dhabi, UAE

EN 10217-1:2019+A1:2005
Welded Steel Tubes For Pressure purposes.
Non Alloy steel tubes with Specified Room Temperature Properties
Specific inspection for quality TR1
&
Specific Inspection for quality TR2

List of the products covered by this statement:

Welded steel tubes for pressure purpose	
Product Description	**Description**
Non alloy steel tubes with specified room temperature properties Steel Quality:- TR1 Specific Inspection Group 1 Steel Number and Grade: 1.0107 (P195TR1), 1.0254 (P235TR1), 1.0258 (P265TR1)	21.30 mm x 1.80 to 3.20 mm 26.90 mm x 1.80 to 3.20 mm 33.70 mm x 1.80 to 4.00 mm 42.40 mm x 1.80 to 4.00 mm 48.30 mm x 1.80 to 5.00 mm 60.30 mm x 1.80 to 5.00 mm 76.10 mm x 1.80 to 5.00 mm 88.90 mm x 2.00 to 5.60 mm 114.3 mm x 2.00 to 7.10 mm 139.7 mm x 3.20 to 7.10 mm 141.3 mm x 3.20 to 7.10 mm 152.4 mm x 3.20 to 7.10 mm 168.3 mm x 3.20 to 7.10 mm 177.8 mm x 3.20 to 7.10 mm 193.7 mm x 3.60 to 12.0 mm 219.1 mm x 3.60 to 12.0 mm 244.5 mm x 4.00 to 12.0 mm 273.1 mm x 5.00 to 12.0 mm 323.0 mm x 5.00 to 14.0 mm 339.7 mm x 5.00 to 14.0 mm 355.6 mm x 5.00 to 14.0 mm 406.4 mm x 5.00 to 15.0 mm 457.2 mm x 5.00 to 15.0 mm 508.0 mm x 5.00 to 16.0 mm
Non alloy steel tubes with specified room temperature properties Steel Quality:- TR2 Specific Inspection Group 2 Steel Number and Grade: 1.0108 (P195TR2), 1.0255 (P235TR2), 1.0259 (P265TR2)	

EUROPEAN COMPLIANCE ASSESSMENT Level 2000, Bastion Tower, 5 Place Du Champ De Mars, B -1050, Brussels, Belgium Web : www.eca.co.in

United Arab Emirates
Ministry of Interior
General Directorate of Civil Defense
General Department of Civil Defense - Abu Dhabi

دولة الامارات العربية المتحدة
وزارة الداخلية
القيادة العامة للدفاع المدني
الإدارة العامة للدفاع المدني - أبوظبي

رقم الترخيص : 20121119195
سنة الترخيص : 2021
عدد التراخيص : 1

ترخيص مصنع لمعدات و أجهزة و مواد الوقاية و مكافحة الحريق

تم إصدار الترخيص استنادا إلى القرار الوزاري رقم (24) لسنة 2012 ، في شأن تنظيم خدمات الدفاع المدني

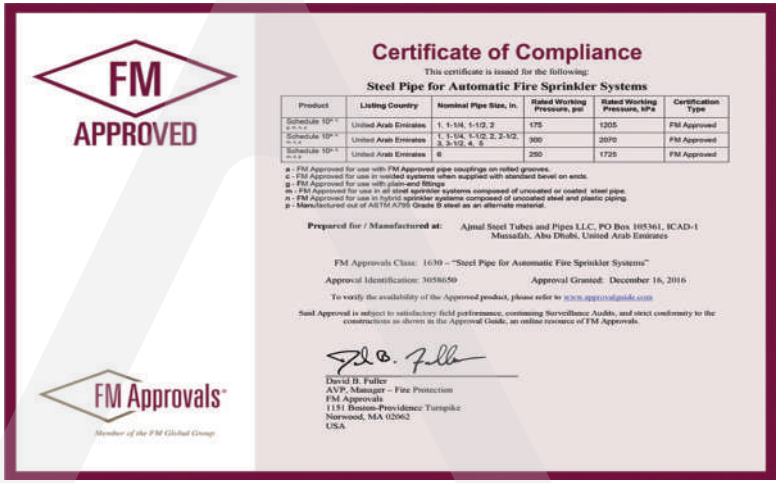
الاسم التجاري للمنشأة	مصنع أجمل للأنابيب الفولاذية المحدودة ذ م م	رقم الرخصة	IN-1001320	رقم السجل	20121119195
اسم صاحب الترخيص	اسحاق محمد سالم الميزة ال بشر	الجنسية	الإمارات العربية المتحدة		
نوع النشاط	تصنيع أنابيب فولاذية			منطقة النشاط	أبوظبي
رقم الهاتف	050907861 6	رقم الفاكس		ص.ب	105361
عنوان الشركة	المؤسسة العليا للمناطق الإقتصادية المتخصصة - مدينة أبوظبي الصناعية ايكاد 1 ، ايكاد1 ، أبوظبي أبوظبي				
الموقع و البريد الإلكتروني	pro@ajmalpipes.ae				
تاريخ تأسيس المنشأة	20/05/2006	تاريخ الإصدار	19/01/2021	تاريخ الانتهاء	01/09/2021
عدد المعدات و الأجهزة المراد ترخيصها	1				
عدد المهندسين المعتمدين	3	عدد الفنيين المعتمدين	5		

- تم تسديد الرسوم بإيصال رقم (101935664890418931 50).

رؤيتنا أن تكون دولة الإمارات العربية المتحدة من أفضل دول العالم في تحقيق الأمن و السلامة

تعتبر هذه الشهادة وثيقة رسمية لا تحتاج الى توقيع. للتأكد من صحة المعلومات يرجى زيارة الرابط التالي:
https://cdservices.moi.gov.ae/index/certificate-inquiry

1 / 3



FM APPROVED

Certificate of Compliance

This certificate is issued for the following:

Steel Pipe for Automatic Fire Sprinkler Systems

Product	Listing Country	Nominal Pipe Size, in.	Rated Working Pressure, psi	Rated Working Pressure, kPa	Certification Type
Schedule 10[a, c, g, m, n, p]	United Arab Emirates	1, 1-1/4, 1-1/2, 2	175	1205	FM Approved
Schedule 10[a, c, g, m, n, p]	United Arab Emirates	1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4, 5	300	2070	FM Approved
Schedule 10[a, c, g, m, n, p]	United Arab Emirates	6	250	1725	FM Approved

a - FM Approved for use with FM Approved pipe couplings on rolled grooves.
c - FM Approved for use in welded systems when supplied with standard bevel on ends.
g - FM Approved for use with plain-end fittings.
m - FM Approved for use in all steel sprinkler systems composed of uncoated or coated steel pipe.
n - FM Approved for use in hybrid sprinkler systems composed of uncoated steel and plastic piping.
p - Manufactured out of ASTM A795 Grade B steel as an alternate material.

Prepared for / Manufactured at: Ajmal Steel Tubes and Pipes LLC, PO Box 105361, ICAD-1 Musaffah, Abu Dhabi, United Arab Emirates

FM Approvals Class: 1630 – "Steel Pipe for Automatic Fire Sprinkler Systems"

Approval Identification: 3058650 Approval Granted: December 16, 2016

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

David B. Fuller
AVP, Manager – Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062
USA

FM Approvals
Member of the FM Global Group

FM APPROVED

Certificate of Compliance

This certificate is issued for the following:

Steel Pipe for Automatic Fire Sprinkler Systems

Product	Listing Country	Nominal Pipe Size, in.	Rated Working Pressure, psi	Rated Working Pressure, kPa	Certification Type
Schedule 40[a, b, c, e, g, i, m, n, p]	United Arab Emirates	½, ¾, 1, 1-1/4, 1-1/2, 2	175	1205	FM Approved
Schedule 40[a, b, c, e, g, i, m, n, p]	United Arab Emirates	½, ¾, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4, 5	300	2070	FM Approved
Schedule 40[a, b, c, e, g, i, m, n, p]	United Arab Emirates	6	250	1725	FM Approved

a - FM Approved for use with FM Approved pipe couplings on rolled or cut grooves.
b - FM Approved for use with FM Approved pipe fittings when threaded
c - FM Approved for use in welded systems when supplied with standard bevel on ends.
e - Any FM Approved pipe coupling or fitting suitable for use with Schedule 10 pipe may be used with this product at the lower rated pressure of the pipe or the fitting.
g - FM Approved for use with plain-end fittings.
i - 1/2 in (15mm) and 3/4 in (20mm) nominal size limited for use in valve trim
m - FM Approved for use in all steel sprinkler systems composed of uncoated or coated steel pipe.
n - FM Approved for use in hybrid sprinkler systems composed of uncoated steel and plastic piping.
p - Manufactured out of ASTM A53 Grade B steel as an alternate material.

Prepared for / Manufactured at: Ajmal Steel Tubes and Pipes LLC, PO Box 105361, ICAD-1 Musaffah, Abu Dhabi, United Arab Emirates

FM Approvals Class: 1630 – "Steel Pipe for Automatic Fire Sprinkler Systems"

Approval Identification: 3058650 Approval Granted: December 16, 2016

To verify the availability of the Approved product, please refer to www.approvalguide.com

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David B. Fuller
AVP, Manager – Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062
USA

FM Approvals
Member of the FM Global Group

FM APPROVED

Certificate of Compliance

This certificate is issued for the following:

Steel Pipe for Automatic Fire Sprinkler Systems

Product	Listing Country	Nominal Pipe Size, mm.	Rated Working Pressure, psi	Rated Working Pressure, kPa	Certification Type
EN 10255 Medium[a, b, c, e, g, m, n]	UAE	33.7, 42.4, 48.3, 60.3	175	1205	FM Approved
EN 10255 Medium[a, b, c, e, g, m, n]	UAE	33.7, 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7	300	2070	FM Approved
EN 10255 Medium[a, b, c, e, g, m, n]	UAE	168.1	250	1725	FM Approved

a - FM Approved for use with FM Approved pipe couplings on rolled grooves.
c - FM Approved for use in welded systems when supplied with standard bevel on ends.
g - FM Approved for use with plain-end fittings.
m - FM Approved for use in all steel sprinkler systems composed of uncoated or coated steel pipe.
n - FM Approved for use in hybrid sprinkler systems composed of uncoated steel and plastic piping.

Prepared for / Manufactured at: Ajmal Steel Tubes and Pipes LLC, PO Box 105361, ICAD-1 Musaffah, Abu Dhabi, United Arab Emirates

FM Approvals Class: 1630 – "Steel Pipe for Automatic Fire Sprinkler Systems"

Approval Identification: 3058650 Approval Granted: December 16, 2016

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

David B. Fuller
AVP, Manager – Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062
USA

FM Approvals
Member of the FM Global Group

FM APPROVED

Certificate of Compliance

This certificate is issued for the following:

Steel Pipe for Automatic Fire Sprinkler Systems

Product	Listing Country	Nominal Pipe Size, mm.	Rated Working Pressure, psi	Rated Working Pressure, kPa	Certification Type
EN 10255 Heavy[a, b, c, e, g, m, n]	UAE	33.7, 42.4, 48.3, 60.3	175	1205	FM Approved
EN 10255 Heavy[a, b, c, e, g, m, n]	UAE	33.7, 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7	300	2070	FM Approved
EN 10255 Heavy[a, b, c, e, g, m, n]	UAE	168.1	250	1725	FM Approved

a - FM Approved for use with FM Approved pipe couplings on rolled or cut grooves.
b - FM Approved for use with FM Approved pipe fittings when threaded
c - FM Approved for use in welded systems when supplied with standard bevel on ends.
g - FM Approved for use with plain-end fittings.
i - FM Approved for use when the listing of the couplings or fittings make specific mention of their suitability with this sprinkler pipe.
m - FM Approved for use in all steel sprinkler systems composed of uncoated or coated steel pipe.
n - FM Approved for use in hybrid sprinkler systems composed of uncoated steel and plastic piping.

Prepared for / Manufactured at: Ajmal Steel Tubes and Pipes LLC, PO Box 105361, ICAD-1 Musaffah, Abu Dhabi, United Arab Emirates

FM Approvals Class: 1630 – "Steel Pipe for Automatic Fire Sprinkler Systems"

Approval Identification: 3058650 Approval Granted: December 16, 2016

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

David B. Fuller
AVP, Manager – Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062
USA

FM Approvals
Member of the FM Global Group

CERTIFICATE OF COMPLIANCE

Certificate Number	EX16065
Report Reference	EX16065-2012-03-27
Date	2020-October-08
Issued to:	AJMAL STEEL TUBES & PIPES INDUSTRIES L L C Plot No 33 C2 & 34 C2 Icad-1 - Mussafah Po Box 105361 Abu Dhabi AE
This is to certify that representative samples of	METALLIC SPRINKLER PIPE See Addendum Page for Product Designation(s).
	Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL 852, UL Standard for Safety for Metallic Sprinkler Pipe for Fire Protection Service
Additional Information:	See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at http://iq.ulprospector.com/

CERTIFICATE OF COMPLIANCE

Certificate Number	EX16065
Report Reference	EX16065-2012-03-27
Date	2020-October-08

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Products:
Schedule 40 (black or galvanized) steel pipe in the 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 3-1/2", 4", 5", 6", 8", 10", 12", 14", 16", 18" and 20" in sizes as per ASTM A53/A53M, Grade A and B, Type E.

Schedule 10 (black or galvanized) steel pipe in the 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 3-1/2", 4", 5", 6" and 8" in sizes as per ASTM A795/A795M, Grade A and B, Type E.

Schedule 10 (black or galvanized) steel pipe in the 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 3-1/2", 4", 5", 6" and 8" in sizes as per ASTM A135/A135M, Grade A and B, Type E.

All pipes with threaded ends shall conform to ANSI B1.20.1.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at http://iq.ulprospector.com/

مكتب تنمية الصناعة
Industrial Development Bureau

ABU DHABI PUBLIC HEALTH CENTRE | مركز أبوظبي للصحة العامة

Approval Certificate

By Authorization from

Abu Dhabi Public Health Center

Industrial Development Bureau – Department of Economic Development Certifies that

Ajmal Steel Tubes & Pipes Industries LLC

Has met all the minimum requirements of Abu Dhabi Occupational Safety and Health System Framework (OSHAD-SF).

Approved System:

"Occupational Safety and Health Management System of **Ajmal Steel Tubes & Pipes Industries LLC**"

Scope:

Steel Welded Tubes and Pipes Manufacturing, Metal Coating

Approval Date:	01/08/2011
Renewal Date:	18/09/2020
Valid Till:	31/07/2023

Approval Certificate No: OSHAD-SF/IN/IN15/01/012/061

مكتب تنمية الصناعة - دائرة التنمية الاقتصادية

Industrial Development Bureau – Department of Economic Development

Important Note:

- System Implementation must commence within one month of the approval date, and all requirements under OSHAD SF must be complied with
- Performance Reports must be submitted to the SRA on quarterly basis in accordance with OSHAD SF requirements
- The external audit must be conducted by an auditing company registered with the Center after 12 months from system approval date and annually thereafter, with the audit reports submitted to the SRA
- The Approval Certificate will be re-issued by the end of the third year in accordance with the annual audit results and corrective actions taken by the entity
- This Certificate shall be revoked at any time by the SRA in case of non-compliance with the implementation requirements of OSHAD SF & not using the Electronic System " AL ADAA" for submitting the relevant reports

Abu Dhabi Public Health Centre
Tel: 02 504 8841
Email: adcph@doh.gov.ae
Abu Dhabi, United Arab Emirates

مركز أبوظبي للصحة العامة
الهاتف 02 504 8841
البريد الإلكتروني adcph@doh.gov.ae
أبوظبي، الإمارات العربية المتحدة

شهادة إعتماد

بتخويل من

مركز أبوظبي للصحة العامة

يشهد مكتب تنمية الصناعة - دائرة التنمية الاقتصادية بأن

مصنع اجمل للانابيب الفولاذية المحدودة ذ.م.م

قد إستوفى(أو استوفت) كافة المتطلبات الأساسية للاطار العام لنظام إمارة أبوظبي للسلامة والصحة المهنية (نظام الامارة).

النظام المعتمد:

" نظام إدارة السلامة والصحة المهنية لـ **مصنع اجمل للانابيب الفولاذية المحدودة ذ.م.م**"

النطاق:

صناعة أنابيب ومواسير ملحومة من الصلب، طلاء بالمعادن

تاريخ الإعتماد:	01/08/2011
تاريخ التجديد:	18/09/2020
صالحة لغاية:	31/07/2023

شهادة إعتماد رقم: OSHAD-SF/IN/IN15/01/012/061

ملاحظة هامة:

- يجب تطبيق النظام خلال فترة لا تتجاوز شهر من تاريخ الاعتماد، والالتزام عند التطبيق بكافة متطلبات "نظام الامارة"
- يجب رفع تقارير الأداء الى السلطة المنظمة للقطاع بشكل ربع سنوي وفقاً لمتطلبات "نظام الامارة"
- يجب إجراء التدقيق الخارجي من قبل شركة تدقيق مسجلة لدى "مركز أبوظبي للسلامة والصحة المهنية" بعد 12 شهراً من تاريخ اعتماد النظام وبشكل سنوي بعد ذلك، على أن يتم رفع تقارير التدقيق الى السلطة المنظمة للقطاع
- يتم اعادة منح شهادة الاعتماد مع نهاية السنة الثالثة بناء على نتائج التدقيق والاجراءات التصحيحية التي يقوم بها الكيان
- يحق للسلطة المنظمة للقطاع الغاء هذه الشهادة في أي وقت في حال عدم الالتزام بمتطلبات تطبيق "نظام الامارة" وعدم استخدام التطبيق الإلكتروني " الاداء" في رفع التقارير ذات العلاقة

UNITED ARAB EMIRATES
MINISTRY OF ENERGY & INDUSTRY

الإمارات العربية المتحدة
وزارة الطـاقـــة والصنـــاعة

رقم القيد : 4731
تاريخ القيد : 27/7/2008

رخصة إنتاج صناعي

أصحاب الترخيص:	الاسم	الجنسية
	اسحاق مجد سالم مجد الميزه ال بشر	الأمارات العربية المتحدة
	مجد اشرف شاه الأمير	الهند

الإسم التجاري: مصنع احمل للانابيب الفولاذية المحدودة/ذ.م.م

النشاط: صناعة المواسير الحديدية ولوازمها

العنوان: ص.ب : 105361 هاتف : 025501131

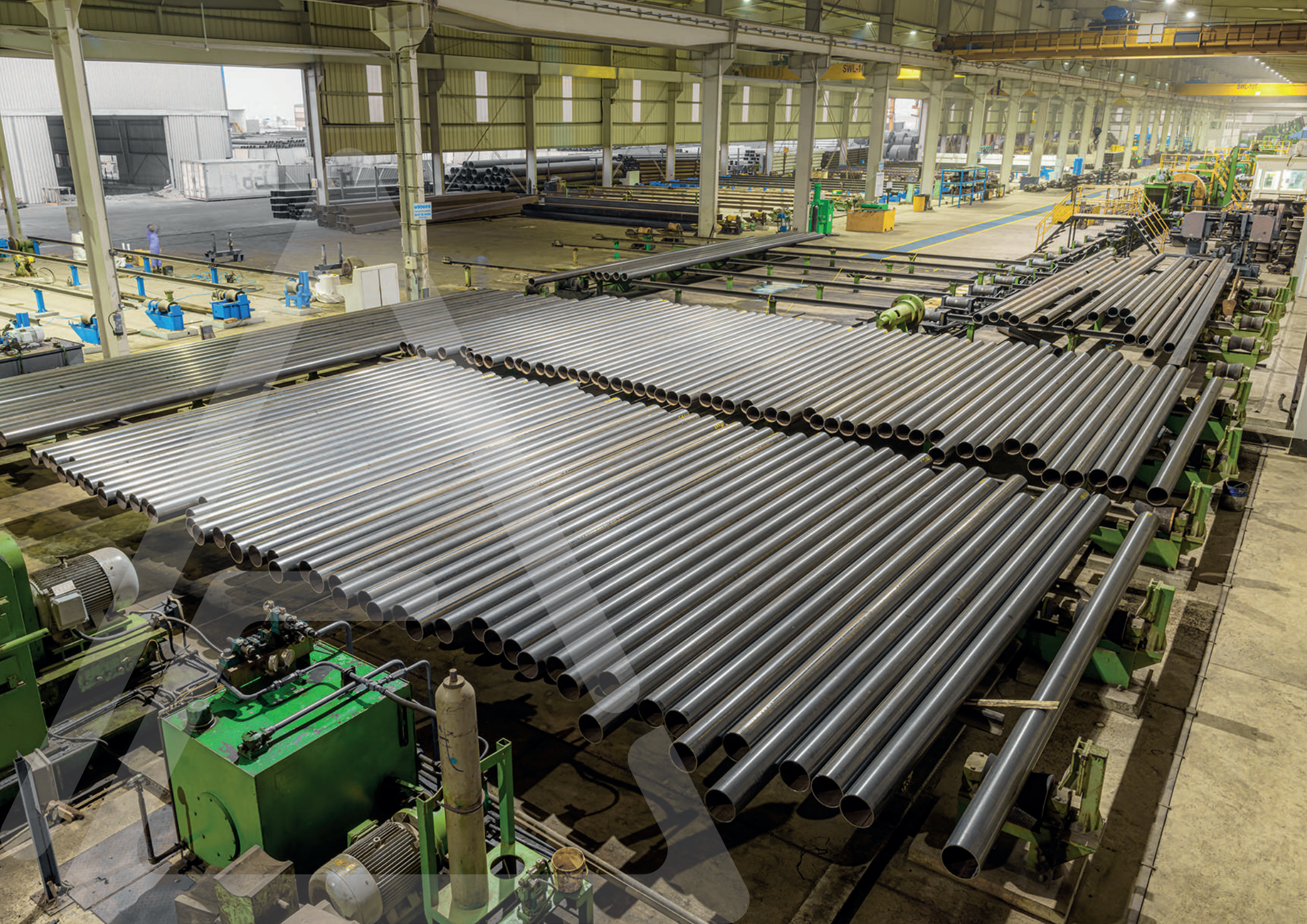
الإمارة: أبوظبي المدينة : مدينة ابوظبي المنطقة : مصفح

تاريخ الاصدار: 8/6/2021

تاريخ الانتهاء: 7/6/2022

رقم الايصال: 11593148662541623991

إدارة التراخيص الصناعية



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AJSTEEL

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Ajmal Steel Tubes & Pipes Industries LLC

☎ : +971-2-5501131 Fax: +971-2-5501129, P.O Box : 105361, ICAD-1 & 2, Abu Dhabi, U.A.E.

✉ : info@ajsteel.com, www.ajsteel.com