AS 1074-1989

Steel Tubes and Tubulars for Ordinary Service

MATERIAL OF GRADE	(%) CHEMICAL COMPOSITION (Max)				MECHANICAL PROPERTIES (Min)		
	C Max	Mn Max	P Max	S Max	Yield Strength	Tensile Strength	Elongation
					N/mm²	N/mm²	% (min.)
-	0.40	-	0.045	0.045	195	320-460	20

Light class

NOMINAL SIZE			THICKNESS MM			OUTSIDE DIAMETER MM			PLAIN END	THREADED AND SOCKETED
in	mm		Std.	Min	Max	Std.	Min	Max	KG/M	cm²
1/2"	DN 15	21.4	2.00	1.84	2.16	21.4	21.0	21.4	0.947	0.956
3/4"	DN 20	26.9	2.30	2.12	2.48	26.9	26.4	26.9	1.38	1.39
1"	DN 25	33.8	2.60	2.39	2.81	33.8	33.2	33.8	1.98	2.00
1¼"	DN 32	42.5	2.60	2.39	2.81	42.5	41.9	42.5	2.54	2.57
1½"	DN 40	48.4	2.90	2.67	3.13	48.4	47.8	48.4	3.23	3.27
2"	DN 50	60.2	2.90	2.67	3.13	60.2	26.6	60.2	4.08	4.15
2½"	DN 55	76.0	3.20	2.94	3.46	76.0	75.2	76.0	5.71	5.83
3"	DN 80	88.7	3.20	2.94	3.46	88.7	87.9	88.7	6.72	6.89
4"	DN 100	113.9	3.60	3.31	3.86	113.9	113.0	113.9	9.75	10.00

Medium class

NOMINAL SIZE			THICKNESS MM			OUTSIDE DIAMETER MM			PLAIN END	THREADED AND SOCKETED
in	mm		Std.	Min	Max	Std.	Min	Max	KG/M	KG/M
1/2"	DN 15	21.7	2.60	2.34	2.86	21.7	21.10	21.70	1.21	1.22
3/4"	DN 20	27.2	2.60	2.34	2.86	27.2	26.60	27.20	1.56	1.57
1"	DN 25	34.2	3.20	2.88	3.52	34.2	33.40	34.20	2.41	2.43
1¼"	DN 32	42.9	3.20	2.88	3.52	42.9	42.10	42.90	3.10	3.13
1½"	DN 40	48.8	3.20	2.88	3.52	48.8	48.00	48.80	3.57	3.61
2	DN 50	60.8	3.60	3.24	3.96	60.8	59.80	60.80	5.03	5.10
2-1/2"	DN 55	76.6	3.60	3.24	3.96	76.6	75.40	76.60	6.43	6.55
3"	DN 80	89.5	4.00	3.60	4.40	89.5	88.10	89.50	8.37	8.54
4"	DN 100	114.9	4.50	4.05	4.95	114.9	113.30	114.90	12.20	12.50
5"	DN 125	140.6	5.00	4.50	5.50	140.6	138.70	140.60	16.60	17.10
6"	DN 150	166.1	5.00	4.50	5.50	166.1	164.10	166.10	19.70	20.30

Heavy class

NOMINAL SIZE			THICKNESS MM			OUTSIDE DIAMETER MM			PLAIN END	THREADED AND SOCKETED
in	mm		Std.	Min	Max	Std.	Min	Max	KG/M	KG/M
1/2"	DN 15	21.7	3.20	2.88	3.52	21.7	21.10	21.70	1.44	1.45
3/4"	DN 20	27.2	3.20	2.88	3.52	27.2	26.60	27.20	1.87	1.88
1"	DN 25	34.2	4.00	3.60	4.40	34.2	33.40	34.20	2.94	2.96
1¼"	DN 32	42.9	4.00	3.60	4.40	42.9	42.10	42.90	3.80	3.83
1½"	DN 40	48.8	4.00	3.60	4.40	48.8	48.00	48.80	4.38	4.42
2	DN 50	60.8	4.50	4.05	4.95	60.8	59.80	60.80	6.19	6.26
2-1/2"	DN 55	76.6	4.50	4.05	4.95	76.6	75.40	76.60	7.93	8.05
3"	DN 80	89.5	5.00	4.50	5.50	89.5	88.10	89.50	10.30	10.50
4"	DN 100	114.9	5.40	4.86	5.94	114.9	113.30	114.90	14.50	14.80
5"	DN 125	140.6	5.40	4.86	5.94	140.6	138.70	140.60	17.90	18.40
6"	DN 150	166.1	5.40	4.86	5.94	166.1	164.10	166.10	21.30	21.90

Dimension Tolerances

Thickness	M and H series : + No limit, - 10% L2 series : + No limit , -8%
Weight	+ 10% , - 8%