Precision Carbon Steel Tubes

STANDARD	
	DIN 2391

DIMENSIONS

O.D. mm	Wall Thickness (mm)																	
	2	2,2	2,5	2,8	3	3,5	4	4,5	5	5,5	6	7	8	9	10	12	14	16
	Weight (kg/m)																	
20		0,96	1,08	1,19	1,26	1,42	1,58	1,72	1,85									
22			1,2	1,33	1,41	1,6	1,78	1,94	2,1									
25				1,39	1,53	1,63	1,86	2,07	2,28	2,47	2,64	2,81						
26			1,45	1,6	1,7	1,94	2,17	2,39	2,59	2,78	2,96	3,28						
28				1,74	1,85	2,11	2,37	2,61	2,84	3,05	3,26	3,63						
30					2	2,29	2,56	2,83	3,08	3,32	3,55	3,97						
32		1,62	1,82	2,02	2,15	2,46	2,76	3,05	3,33	3,59	3,85	4,32	4,74					
35			2	2,22	2,37	2,72	3,06	3,38	3,7	4	4,29	4,83	5,33					
38			2,19	2,43	2,59	2,98	3,35	3,72	4,07	4,41	4,74	5,35	5,92					
40			2,31	2,57	2,74	3,15	3,55	3,94	4,32	4,68	5,03	5,7	6,31					
42			2,44	2,71	2,89	3,32	3,75	4,16	4,56	4,95	5,33	6,04	6,71	7,32	7,89			
45			2,62	2,91	3,11	3,58	4,04	4,49	4,93	5,36	5,77	6,56	7,3	7,99	8,83			
48			2,81	3,12	3,33	3,84	4,34	4,83	5,3	5,76	6,21	7,08	7,89	8,66	9,37	10,65		
50			2,93	3,26	3,48	4,01	4,54	5,05	5,55	6,04	6,51	7,42	8,29	9,1	9,86	11,25		
55					3,85	4,45	5,03	5,6	6,17	6,71	7,25	8,29	9,27	10,21	11,1	12,73		
60					4,22	4,88	5,52	6,16	6,78	7,39	7,99	9,15	10,26	11,32	12,33	14,21		
65						5,31	6,02	6,71	7,4	8,07	8,73	10,01	11,25	12,43	13,56	15,68	17,61	19,33
70								7,27	8,01	8,75	9,47	10,88	12,23	13,54	14,8	17,16	19,33	21,31
75									8,63	9,43	10,21	11,74	13,22	14,65	16,03	18,64	21,06	
80									9,25	10,11	10,95	12,6	14,21	15,76	17,26	20,12	22,79	25,25
85									9,86	10,78	11,69	13,47	15,19	16,87	18,5	21,6	24,51	27,23
90									10,48	11,46	12,43	14,33	16,18	17,98	19,73	23,08	26,24	29,2
95									11,1	12,14	13,17	15,19	17,16	19,09	20,96	24,56	27,97	31,17

100									11,71	12,82	13,91	16,05	18,15	20,2	22,2	26,04	29,69	33,15
110									12,95	14,17	15,39	17,78	20,12	22,42	24,66	29	33,15	37,09
120										14,18	15,53	16,87	19,51	22,1	24,64	27,13	31,96	36,6
130										16,89	18,35	21,23	24,07	26,86	29,59	34,92	40,05	44,98
140											19,83	22,96	26,04	29,08	32,06	37,88	43,5	48,93

Weight per unit calculation formula:
w = (O.D. - W.T.) x W.T. x 0.0246615 (kg/m)
w = (O.D. - W.T.) x W.T. x 10.68 (lb/ft)

STEEL REQUIREMENTS

Standard	Steel grade	Chemical requirements					Mechanical requirements		
		C	Mn	P	S	Si	Tensile	Yield strength	Elongation
		max.	max.	max.	max.	max.	strength		A min.
		(%)	(%)	(%)	(%)	(%)	N/mm2	N/mm2	(%)
DIN	ST 35	0,17	min. 0,4	0,025	0,025	0,35	340-470	min. 235	25
2391	ST 45	0,21	min. 0,4	0,025	0,025	0,35	440-570	min. 255	21
	ST 52	0,22	max. 1,6	0,025	0,025	0,55	490-630	min. 255	22

Other details	
LENGTHS	Random length: 4,00-10,00 meters (13,1-33,4 ft)
	Tolerances: ± 100 mm (± 3,94 ft)
PROTECTION	Unprotected or external oiled/external varnished
	At customers each pipe is provided with plastic protectors at both ends.
MARKING	Paint stenciled according to standard or per customer request.
	Technical details can be also marked on tags attached to each bundle.
DELIVERY	In bundles of maximum 2500 Kg, tied in minimum four places with steel strips.
	Pipes according to DIN 2391 will be delivered in NBK (normalized) final supply condition.
MILL TEST REPORT	Mill test reports are issued to customer requirements.
	Usually they comply with EN 10204 - 3.1.B (DIN 50049 - 3.1.B)

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