Steel Tube for Conveyor Roller

MATERIAL OF GRADE	(%) CHEMICAL COMPOSITION (Max)					MECHANICAL PROPERTIES (Min)		
	C Max	Si Max	Mn Max	P Max	S Max	Yield Strength	Tensile Strength	Elongation
						N/mm²(min)	N/mm²(min)	% (min)
SS400	0.250	-	-	0.040	0.040	245	400	23
C250, C250L0	0.120	0.050	0.500	0.030	0.030	250	320	18

NOMINAL SIZE		THICKNESS MM			OUTSIDE DIAMETER MM			WEIGHT (PLAIN END) KG/M	CROSS SECTIONAL AREA	GEOMETRICAL MOMENT OF INERTIA	MODULUS OF SECTION	RADIUS OF GYRATION
in	mm	Std.	Min	Max	Std.	Min	Max	STD	cm^2	cm^4	cm^3	cm
2"	60	3.00	2.90	3.10	60	59.70	60.30	4.36	5.55	43.73	7.29	2.03
	60	3.50	3.40	3.60	60	59.70	60.30	5.01	6.38	49.74	8.29	2.00
2-1/2"	76	3.00	2.90	3.10	76	75.70	76.30	5.56	7.08	91.77	12.07	2.54
3"	89	3.00	2.90	3.10	89	88.70	89.30	6.48	8.25	149.97	16.85	3.04
	89	3.50	3.40	3.60	89	88.70	89.30	7.49	9.54	172.01	19.33	3.03
	89	4.50	4.30	4.70	89	88.70	89.30	9.57	12.20	213.74	24.02	2.99
3-1/2"	102	3.00	2.90	3.10	102	101.70	102.30	7.42	9.45	228.72	22.42	3.47
3-3/4"	108	3.50	3.40	3.60	108	107.70	108.30	9.20	11.72	313.89	29.06	3.65
4"	114	3.50	3.40	3.60	114	113.70	114.30	9.73	12.39	371.07	32.55	3.86
	114	4.50	4.30	4.70	114	113.70	114.30	12.40	15.80	464.58	40.75	3.83
4-1/2"	127	3.50	3.40	3.60	127	126.70	127.30	11.11	14.15	517.95	40.78	4.37
	127	4.00	3.80	4.20	127	126.70	127.30	12.29	15.65	584.93	46.06	4.35
4-3/4"	133	4.00	3.80	4.20	133	132.70	133.30	13.20	16.48	674.71	50.73	4.52
5"	140	4.00	3.80	4.20	140	139.40	140.60	13.63	17.36	790.54	56.47	4.77
	140	5.10	4.90	5.30	140	139.40	140.60	17.34	22.08	984.23	70.30	4.72
5-1/2"	152	4.00	3.80	4.20	152	151.40	152.60	14.75	18.78	1018.67	67.02	5.23
	152	4.50	4.30	4.70	152	151.40	152.60	17.34	22.09	1134.65	74.65	5.22
	152	6.00	5.80	6.20	152	151.40	152.60	22.68	28.89	1468.29	96.60	5.17
5-7/8"	159	4.50	4.30	4.70	159	158.40	159.60	17.45	22.23	1303.87	82.00	5.41
	159	4.90	4.70	5.10	159	158.40	159.60	19.00	24.21	1409.01	88.62	5.39
	159	6.00	5.80	6.20	159	158.40	159.60	23.17	29.52	1689.52	106.26	5.34
6"	165	4.60	4.40	4.80	165	164.40	165.60	18.38	23.41	1491.41	90.39	5.64
	165	4.70	4.50	4.90	165	164.40	165.60	18.78	23.92	1521.04	92.18	5.63

Dimension Tolerances

Outside Diameter	< 140 mm. : ± 0.3 mm. ≥ 140 mm. : ± 0.6 mm.
Thickness	< 4.0 mm. : ± 0.1 mm. ≥ 4.0 mm. : ± 0.2 mm.
Straightness	0.66 / 1000 mm Max.
Internal Weld Bead	Removed, tolerance: + 0.1 / -0.2 m

