

## TUBO SEM COSTURA

Nominal	DIÂMETRO		Esp. Parede mm	Peso Kg/m	Denom.	Schedule Nº
	Ext. mm	Int. mm				

3/8"	17,15	12,53	2,31	0,85	STD	40
		10,75	3,20	1,10	XS	80

3/4"	26,67	20,93	2,87	1,68	STD	40
		18,85	3,91	2,19	XS	80
		15,55	5,56	2,89		160
		11,03	7,82	3,63	XXS	

1 1/4 "	42,16	35,04	3,56	3,38	STD	40
		32,46	4,85	4,46	XS	80
		29,46	6,35	5,60		160
		22,76	9,70	7,75	XXS	

2"	60,32	52,50	3,91	5,43	STD	40
		49,24	5,54	7,47	XS	80
		42,84	8,74	11,10		160
		38,18	11,07	13,41	XXS	

ASTM A-178			DIN 2440					DIN 2458		
Tubos para caldeiras e super aquecedores			Nominal	mm	mm	mm	Kg/m	Tubos para evaporadores, serpentinas, etc.		
Diâmetro	Esp. Parede	Peso Teórico		Ext. mm	Interno	Parede		Diâmetro	Esp. Parede	Peso Teórico
Ext. mm	mm	kg/ mm					Ext. mm	mm	kg/ mm	
25,4	2,65	1,487	3/8"	17,2	12,5	2,35	0,85	25,4	2,65	1,487
31,75	2,65	1,902						31,75	2,65	2,029
42,20	2,65	2,585	3/4"	26,9	21,6	2,65	1,58			
	3,00	2,900								
			1 1/4"	42,4	35,9	3,25	3,14	50,80	2,65	3,147
									3,00	3,536
63,50	3,35	4,969	2	60,3	53,9	3,65	5,10			
	3,75	5,526								
			3"	88,9	80,8	4,05	8,47	76,20	2,65	4,807
									3,00	5,416
									3,35	6,019
88,90	3,00	6,355	5"	139,7	130,0	4,85	16,20			
	3,35	7,068								
	3,75	7,875								
	4,25	8,872		8"	219,1	206,5	6,30	33,20		

## TUBOS MECÂNICOS ST 52

Medidas padrão e características mecânicas

Bitola	Medidas Fabricação mm	Peso	Bitola	Medidas Fabricação mm	Peso	Bitola	Medidas Fabricação mm	Peso
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Nominal	Diâm. Externo	Espessura de Parede	Diâm. Int. Aprox.	Teórico Kg/m	Nominal	Diâm. Externo	Espessura de Parede	Diâm. Int. Aprox.	Teórico Kg/m	Bitola Nominal	Diâm. Externo	Espessura de Parede	Diâm. Int. Aprox.	Teórico Kg/m
*32x20	32,2	6,2	19,8	3,98	71x56	73,0	9,8	53,4	15,27	132x106	133,0	15,9	101,2	45,91
*36x16	36,2	10,43	15,4	6,62	75x50	76,1	14,8	46,5	22,37	137x97	139,7	23,5	92,7	67,34
*36x25	36,2	5,7	24,8	4,29	80x42	81,2	19,9	41,4	30,08	139x97	141,3	24,0	93,3	69,42
*40x25	40,6	7,9	24,8	6,37	80x63	81,2	10,4	60,4	18,16	150x80	153,0	37,0	79,0	105,84
41x27	42,2	8,5	25,2	7,06	87x57	88,9	17,2	54,5	30,41	150x125	153,0	16,7	119,6	56,13
43x29	44,5	8,5	27,5	7,55	87x68	88,9	10,9	67,1	20,97	164x113	168,3	30,5	107,3	103,64
*45x22	45,2	11,7	21,8	9,67	95x50	96,5	25,2	46,1	44,31	175x120	177,8	32,0	113,8	115,05
*45x32	45,2	6,7	31,8	6,36	95x75	96,5	12,2	17,1	25,36	184x130	187,7	32,0	123,7	122,87
49x38	50,8	7,5	35,8	8,01	100x71	101,6	16,9	67,8	35,30	190x132	193,7	33,8	126,1	133,28
*50x32	50,2	9,5	31,2	9,53	106x56	108,0	27,0	54,0	53,93	200x140	204,0	35,0	134,0	145,86
55x37	57,0	11,2	34,6	12,65	106x80	108,0	14,6	78,8	33,63	212x150	216,3	36,4	143,5	161,42
*56x28	56,4	14,8	26,8	15,18	112x80	114,3	17,6	79,1	41,97	229x165	235,0	39,0	157,0	188,5
*56x40	56,4	8,8	38,8	10,33	118x69	121,0	27,0	67,0	62,59	239x173	244,5	40,0	164,5	201,72
59x48	60,3	7,2	45,9	9,43	118x90	121,0	17,1	86,8	43,81	253x190	259,0	39,0	181,0	211,58
*63x40	63,4	12,7	38,0	15,88	125x90	127,0	20,7	85,6	54,26	270x200	275,0	39,0	197,0	226,97
*63x50	63,4	7,2	49,0	9,98	125x100	127,0	15,9	95,2	43,56	270x220	275,0	29,7	215,6	179,66
71x41	73,0	16,3	40,4	22,79	132x82	133,0	27,0	79,0	70,58					

## TUBO SEM COSTURA

Especificações Técnicas Para Tubos Sem Costura

Diâmetro		Esp. Parede	Peso	Denom.	Schedule n°	Diâmetro		Esp. Parede	Peso	Denom.	Schedule n°	
Nominal	Ext. mm					Int. mm	mm					kg/m
3"	88,90	77,92	5,49	11,28	STD	14"	355,60	325,22	15,19	126,56	60	
		73,66	7,62	15,25				317,56	19,05	157,92	80	
		66,64	11,13	21,31	XS			307,96	23,82	194,70	100	
		58,42	15,24	27,65	XXS			300,02	27,79	224,38	120	
								292,10	31,75	253,27	140	
				284,18	35,71	281,40	160					
4"	114,30	102,26	6,02	16,06	STD	16"	406,40	393,70	6,35	62,57	10	
		97,18	8,56	22,26	XS			390,56	7,92	77,78	20	
		92,04	11,13	28,27				387,36	9,52	93,19	STD	30
		87,32	13,49	33,49				381,00	12,70	123,16	XS	40
		80,06	17,12	40,98	XXS			373,08	16,66	159,96		60
								363,52	21,44	203,28		80
								354,02	26,19	245,25		100
								344,48	30,96	286,34		120
								333,34	36,53	332,78		140
								325,42	40,49	364,93		160
6"	168,30	155,60	6,35	25,33	STD	18"	457,00	444,50	6,35	70,52	10	
		154,08	7,11	28,23				441,36	7,92	87,70	20	
		146,36	10,97	42,51	XS			438,16	9,52	105,04	STD	
		139,76	14,27	54,15				434,94	11,13	122,24		30
		131,78	18,26	67,48				431,80	12,70	139,05	XS	

		124,40	21,95	79,10	XXS	
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10"	273,05	260,35	6,35	41,74		20
		257,45	7,80	50,95		30
		254,51	9,27	60,23	STD	40
		247,65	12,70	81,45	XS	60
		242,87	15,09	95,87		80
		236,53	18,26	114,62		100
		230,17	21,44	132,86	XXS	120
		222,25	25,40	154,95		140
		215,91	28,57	172,07		160

  

14"	355,60	344,94	5,33	46,02		10
		339,76	7,92	67,87		20
		336,56	9,52	81,20	STD	30
		334,34	11,13	94,40		40
		330,20	12,70	107,27	XS	

  

18"	457,20	428,66	14,27	155,75		40
		419,10	19,05	205,60		60
		409,54	23,83	254,33		80
		398,48	29,36	309,44		100
		387,36	34,92	363,28		120
		377,86	39,67	408,04		140
		366,70	45,25	459,05		160

  

20"	508,0	495,30	6,35	78,46		10
		488,96	9,52	116,96	STD	20
		482,60	12,70	154,95	XS	30
		477,82	15,09	183,19		40
		466,76	20,62	247,60		60
		455,62	26,19	310,80		80
		407,98	50,01	564,20		160

  

22"	558,80	546,10	6,35	86,41		10
		539,76	9,52	128,88		20
		533,40	12,70	182,32	XS	30
		527,04	15,88	212,31		40
		514,36	22,22	293,75		60
		501,66	28,57	373,21		80
		488,96	34,92	450,69		100
		476,26	41,27	526,17		120
		463,56	47,62	599,66		140
		450,86	53,97	671,15		160

  

24"	609,60	596,90	6,35	94,35		10
		590,56	9,52	140,80	STD	20
		584,20	12,70	186,73	XS	
		581,20	14,27	209,33		30
		574,64	17,48	254,88		40
		560,38	24,61	354,66		60
		547,68	30,96	441,31		80
		531,82	38,89	546,68		100
		517,66	46,02	638,93		120
		504,86	52,37	718,88		140

### TUBO INDUSTRIAL REDONDO

Bitolas		Esp. Parede	Barra 6m
mm	pol.	mm	Kg

12,70	1/2"	0,75	1,326
		0,90	1,572
		1,06	1,825
		1,20	2,040
		1,50	2,484

		0,75	2,031
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19,05	3/4	0,90	2,418
		1,06	2,821
		1,20	3,168
		1,50	3,894
		1,90	4,824
		2,00	5,045
		2,25	5,592

22,22	7/8"	0,75	2,382
		0,90	2,838
		1,06	3,186
		1,20	3,732
		1,50	4,596
		1,90	5,712
		2,00	5,983
		2,25	6,648

28,60	1 1/8"	0,90	3,688
		1,06	4,193
		1,20	4,866
		1,50	6,014
		1,90	7,506
		2,00	7,871
		2,25	8,772

34,92	1 3/8"	0,90	4,530
		1,06	5,310
		1,20	5,980
		1,50	7,416
		1,90	9,282
		2,00	9,742
		2,25	10,878
		2,65	12,653
		3,00	14,168

41,27	1 5/8"	0,90	5,376
		1,06	6,306
		1,20	7,115
		1,50	8,826
		1,90	11,068
		2,00	11,621
		2,25	12,990

		2,65	15,143
		3,00	16,987
		3,35	18,796

47,60	17/8"	0,90	6,218
		1,06	7,299
		1,20	8,238
		1,50	10,231
		1,90	12,847
		2,00	13,494
		2,25	15,907
		2,65	17,625
		3,00	19,787

50,80	2"	0,90	6,644
		1,06	7,801
		1,20	8,806
		1,50	10,944
		1,90	13,746
		2,00	14,440
		2,25	16,164
		2,65	18,882
		3,00	21,216
		3,35	23,519
		3,75	26,106
		4,25	29,272
		4,75	32,364
		5,00	33,883

60,30	2 3/8"	1,20	10,493
		1,50	13,050
		1,90	16,418
		2,00	17,252
		2,25	19,325
		2,65	22,604
		3,00	26,434
		3,35	28,288
		3,75	31,377
		4,25	35,246
		4,75	39,041
		5,00	40,911
		5,60	45,323
		6,30	50,335
7,11	55,956		

69,85	2 3/4"	1,50	15,169
		1,90	19,102
		2,00	20,078
		2,25	22,505
		2,65	26,349
		3,00	29,673
		3,35	32,962
		3,75	36,675
		4,25	41,251

88,90	3 1/2"	1,20	15,571
		1,50	19,398
		1,90	24,548
		2,00	25,751
		2,25	28,847
		2,65	33,818
		3,00	38,129
		3,35	42,404
		3,75	47,245
		4,25	53,230
		4,75	59,141
		5,00	62,069
		5,60	69,020
		6,30	76,995
7,11	86,043		

114,30	4 1/2"	1,50	25,034
		1,90	31,597
		2,00	33,232
		2,25	37,302
		2,65	43,777
		3,00	49,404
		3,35	54,994
		3,75	61,338
		4,25	69,202

		4,75	76,992
		5,00	80,860
		5,60	90,066
		6,30	100,670
		7,11	112,763

139,70	5 1/2"	2,25	45,758
		2,65	53,736
		3,00	60,678
		3,35	67,584
		3,75	75,431
		4,25	85,175
		4,75	94,840
		5,00	99,651
		5,60	111,112
		6,30	124,350
7,11	139,484		

165,00	6" 1/2"	2,25	54,214
		2,65	63,696
		3,00	71,953
		3,35	80,173
		3,75	89,525
		4,25	101,150
		4,75	112,695
		5,00	118,442
		5,60	132,160
		6,30	148,030
7,11	166,205		

219,30	8 5/8"	4,25	135,229
		4,75	150,787
		5,00	158,539
		5,60	177,066
		6,30	198,547
		7,11	223,222