Stainless Steel Pipe

OMEGA STEEL CO.
Istanbul · Dilovası plant

Stainless round tube and pipe in 304 / 304L and 316 / 316L: ornamental and mechanical welded tube to ASTM A554 / EN 10296-2 (16–219 mm OD, wall 1.0–3.0 mm, satin, hairline or mirror), welded pressure pipe to EN 10217-7 / ASTM A312 (½" to 12", Schedule 5S–40S) and seamless pipe to EN 10216-5 / A312 for process lines, plus butt-weld fittings, flanges and sanitary tube to DIN 11850 / ISO 2037; from stock in Dilovası for handrails, food and beverage, water, chemical and HVAC systems.

304 · 316L · 321 | Ornamental 16 – 219 mm | Pressure ½" – 12" Sch 5S–40S | Welded · seamless | Fittings · flanges · sanitary

Two families of stainless round tube from one stock: ornamental A554 tube (16–219 mm, 1.0–3.0 mm, polished, for handrails, furniture and food-plant frames) and process pipe to EN 10217-7 / ASTM A312 (½"–12", Sch 5S–40S, welded or seamless, for water, chemical, dairy, brewery and HVAC lines) with matching butt-weld elbows, tees, reducers and flanges. 304 as standard, 316L for chlorides; 6 m bars; cut, bent and welded

ORNAMENTAL TUBE OR PRESSURE PIPE?

	Ornamental / mechanical tube (A554, EN 10296-2)	Pressure pipe (A312, EN 10217-7 / 10216-5)	Sanitary tube (DIN 11850 / ISO 2037)
Sized by	OD × wall in mm (e.g. 50.8 × 1.5)	NPS and schedule (e.g. 2" Sch 10S = 60.3 × 2.77)	DN, OD × wall (e.g. DN50 = 53 × 1.5)
Surface	Satin 180/240, hairline, mirror	Pickled / 2B, mill	Polished inside Ra ≤ 0.8 µm
Test	Dimensional, weld, finish	Hydrostatic / eddy current, mechanicals	Hydro, surface roughness
Use	Handrails, furniture, frames, trolleys	Water, chemical, steam, HVAC, oil & gas	Dairy, brewery, pharma, food
Price	Base	+15–30% (thicker, tested)	+20–40%

ROUND TUBE WEIGHT TABLE (ORNAMENTAL / MECHANICAL)

OD (mm)	Wall (mm)	kg/m	kg per 6 m
20	1	0.473	2.84
20	1.2	0.562	3.37
20	1.5	0.691	4.15
20	2	0.897	5.38
20	2.5	1.09	6.54
20	3	1.271	7.63
21.3	1	0.506	3.04
21.3	1.2	0.601	3.61
21.3	1.5	0.74	4.44
21.3	2	0.962	5.77
21.3	2.5	1.171	7.03
21.3	3	1.368	8.21
22	1	0.523	3.14
22	1.2	0.622	3.73

First 14 of 156 rows — the full table is on the product page.

Welded EN 10217-7 / ASTM A554 (ornamental) and A312 (pressure); density 7.93 kg/dm³; 6 m lengths.

STAINLESS PIPE SCHEDULE CHART (ASME B36.19M)

NPS	OD (mm)	Sch 5S wall / kg/m	Sch 10S wall / kg/m	Sch 40S wall / kg/m	Sch 80S wall / kg/m
½"	21.3	1.65 / 0.81	2.11 / 1.01	2.77 / 1.28	3.73 / 1.63
¾"	26.7	1.65 / 1.03	2.11 / 1.29	2.87 / 1.70	3.91 / 2.22
1"	33.4	1.65 / 1.30	2.77 / 2.11	3.38 / 2.53	4.55 / 3.27
1¼"	42.2	1.65 / 1.66	2.77 / 2.72	3.56 / 3.42	4.85 / 4.51
1½"	48.3	1.65 / 1.91	2.77 / 3.14	3.68 / 4.09	5.08 / 5.47
2"	60.3	1.65 / 2.41	2.77 / 3.96	3.91 / 5.49	5.54 / 7.55
2½"	73.0	2.11 / 3.72	3.05 / 5.31	5.16 / 8.71	7.01 / 11.5
3"	88.9	2.11 / 4.56	3.05 / 6.52	5.49 / 11.4	7.62 / 15.4
4"	114.3	2.11 / 5.90	3.05 / 8.46	6.02 / 16.2	8.56 / 22.5
6"	168.3	2.77 / 11.4	3.40 / 14.0	7.11 / 28.6	10.97 / 43.0
8"	219.1	2.77 / 14.9	3.76 / 20.2	8.18 / 43.0	12.70 / 65.3
10"	273.0	3.40 / 22.8	4.19 / 28.1	9.27 / 61.0	12.70 / 82.5

NPS	OD (mm)	Sch 5S wall / kg/m	Sch 10S wall / kg/m	Sch 40S wall / kg/m	Sch 80S wall / kg/m
12"	323.9	3.96 / 31.6	4.57 / 36.4	9.53 / 74.8	12.70 / 98.6

Sch 10S is the standard for water and process lines; 40S for steam and higher pressure; 5S for low-pressure and vent lines. Welded (A312 W) from stock to 12", seamless (A312 S) to 6" from stock.

GRADES: 304L, 316L, 321, DUPLEX

Grade	EN	Max. service	Choose for
304 / 304L	1.4301 / 1.4307	Water, food, mild chemicals, to 300 °C	Standard; L grade for welded pipe
316 / 316L	1.4401 / 1.4404	Chlorides, sea water, acids, pharma	Coastal, chemical, pools, brine
321	1.4541	High temperature 400–800 °C	Exhaust, heat exchangers
2205 duplex	1.4462	High chloride, high strength	Desalination, offshore (on request)

STANDARDS

ASTM A554 (ornamental / mechanical welded tube) · EN 10296-2 (welded mechanical tube) · ASTM A312 / A312M (welded and seamless pressure pipe) · EN 10217-7 (welded pressure pipe) / EN 10216-5 (seamless) · DIN 11850 / ISO 2037 (sanitary tube) · ASME B36.19M (stainless pipe schedules) · ASTM A403 / EN 10253-4 fittings, ASTM A182 / EN 1092-1 flanges