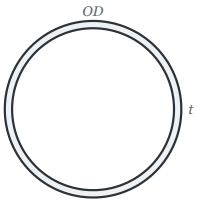
316L Stainless Steel Pipe

OMEGA STEEL CO.
Istanbul · Dilovası plant

1.4404 · AISI 316L · 316L stainless pipe is the round tube for everywhere 304 pits: coastal and marine railings, pool and spa installations, chemical, pharmaceutical and desalination pipework, dishwasher and CIP lines. Welded from 1.4404 (dual 316/316L) strip in Ø 12–219 mm and 1–4 mm walls, satin-polished for architecture or annealed schedule pipe (A312 / EN 10217-7) for pressure, from stock at Dilovası for the common sizes and from the mill for the rest.

1.4404 · AISI 316L | Ø 12–219 mm | 2–2.5 % Mo | Satin / 2B / annealed | PREN ≈ 24



Ø 48.3 × 2 mm

A railing on the Gulf coast in 304 tea-stains within a year; in 316L it stays bright. That one difference sends most of our marine, pool and chemical tube enquiries to this page.

WEIGHT TABLE — 316L ROUND TUBE (KG/M AND PER 6 M)

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.

GRADES, STANDARDS AND TOLERANCES

Grade / standard	Yield (MPa)	Note
1.4404 / 316L (EN 10088, A312 TP316L)	≥ 200	the stock grade, dual 316/316L
1.4401 / 316	≥ 220	ornamental tube, same corrosion
1.4571 / 316Ti	≥ 220	stabilised, to order (German specs)
1.4432	≥ 200	2.5–3 % Mo, harder chloride duty
1.4462 duplex	≥ 450	seawater, hot chlorides, to order

PREN (Cr + 3.3 Mo + 16 N): 304 ≈ 19, 316L ≈ 24, duplex ≈ 34. Choose by chloride level and temperature.

WHERE 316L PIPE IS REQUIRED

Environment	304	316L	Note
Coastal railings < 5 km from sea	tea-staining	good	satin, rinse regularly
Marine deck fittings, boat rails	poor	good	electropolish best
Indoor pools, spas	poor	fair	load-bearing: 1.4529 / duplex
Chemical plant lines (dilute acids)	fair	good	schedule pipe
Pharma / biotech process	fair	good	sanitary tube, EP
Desalination pre-treatment	no	fair	duplex for brine

Environment	304	316L	Note
Dishwasher, CIP, hot detergents	poor	good	
Inland architecture, food plants	good	over-specified	304 is enough

STANDARDS

EN 10296-2 / EN 10217-7 — welded stainless tubes · ASTM A554 / A312 — TP316L · ASME B36.19M schedules · EN 10204 3.1 / 3.2, PED 2014/68/EU