

1.4301 · AISI 304 · 304 is the general-purpose austenitic stainless steel — 18 % chromium, 8 % nickel, material number 1.4301 (X5CrNi18-10) — and the sheet we sell most: non-magnetic, deep-drawable, weldable, corrosion-resistant in food, water, atmospheric and mild chemical service. We stock 0.5–6 mm in 1 000–1 500 mm widths at Dilovası in 2B, BA and No.4 satin finish, cut to size, film-protected; plate above 6 mm to order.

1.4301 · AISI 304	18 % Cr · 8 % Ni	0.5–6 mm stock	2B · BA · No.4	Non-magnetic, food grade
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If a part must not rust and does not live in salt or acid, it is 304: kitchen equipment, tanks, ducts, cladding, sinks, trolleys, handrails. It is the stainless sheet the Turkish market runs on, and the one we hold in every common thickness and finish for same-week loading.

CHEMICAL COMPOSITION

Element	C	Si	Mn	P	S	Cr	Ni	N
max. % (ladle)	≤ 0.07	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.015	17.5–19.5	8.0–10.5	≤ 0.10

ASTM A240 Type 304 allows C ≤ 0.08 and Cr 18.0–20.0; both are supplied dual-certified.

MECHANICAL PROPERTIES

Property	Requirement (EN 10088-2, cold-rolled)	Typical value	Note
Yield strength Rp0.2	≥ 230 MPa	250–310 MPa	Rp1.0 ≥ 260
Tensile strength Rm	540–750 MPa	600–680 MPa	
Elongation A	≥ 45 %	50–58 %	
Hardness	—	≤ 215 HB / 90 HRB	
Impact	not required	> 100 J at –196 °C	cryogenic OK
Magnetic	no (annealed)	slightly after cold work	

EQUIVALENT GRADES

System	Grade	Note
EN 10088	1.4301	material number
DIN	X5CrNi18-10	historic
AISI / ASTM A240	304	US designation
JIS G4304/4305	SUS 304	
GB/T 3280	06Cr19Ni10	
UNS	S30400	

SURFACE FINISHES

Finish	Description	Ra (µm)	Typical use
2B	cold-rolled, annealed, pickled, skin-passed — smooth matt-silver	0.1–0.5	the stock finish: tanks, ducts, hidden and industrial parts
2D	cold-rolled, annealed, pickled — dull	0.4–1.0	deep drawing, parts to be polished
BA (2R)	bright annealed — mirror-like, reflective	≤ 0.1	appliances, cladding, decorative
No. 4 / 2J (satin)	brushed with 150–240 grit	0.3–0.6	kitchens, lifts, handrails, façades
HL (hairline)	long continuous brush lines	0.3–0.5	architecture, doors, panels
No. 8 / 2P (mirror)	polished to mirror	≤ 0.05	decorative, signage
1D	hot-rolled, annealed, pickled — rough	2–6	plate ≥ 3 mm, structural, tanks
Embossed / patterned	rolled pattern (linen, leather, checker)	—	anti-slip, decorative, lifts

All cold-rolled finishes are delivered with a PE / PVC protective film on the good side; 1D plate is unfilmed. Order the finish with the grade, e.g. "1.4301 2B 1.5 mm".

STANDARDS

EN 10088-2 — 1.4301 (X5CrNi18-10) · ASTM A240 / A240M — Type 304 · EN 10028-7 (pressure) — 1.4301 · EN 10204 3.1