430 Stainless Steel Sheet

OMEGA STEEL CO.
Istanbul · Dilovası plant

1.4016 · AISI 430 · 430 is the workhorse ferritic stainless steel: 16–18 % chromium, no nickel, material number 1.4016 (X6Cr17). It is magnetic, about 30 % cheaper than 304 and nearly as bright, which makes it the sheet of appliance panels, cooker hoods, sinks in budget ranges, decorative trims, catering trolleys and dry indoor cladding. Corrosion resistance and formability are below 304. We stock 0.5–3 mm in BA and 2B at Dilovası, cut to size and film-protected.

1.4016 · AISI 430 | 17 % Cr · nickel-free | Magnetic (ferritic) | 0.5–3 mm stock | BA · 2B · No.4

When a part needs to look like stainless and stay indoors, 430 does the job for two-thirds of the price: refrigerator doors, washing-machine panels, hood fronts, trims, shop counters. It is the grade our appliance and furniture customers buy by the truck, in bright-annealed and 2B, and it is magnetic — which is the quickest way to tell it from 304.

CHEMICAL COMPOSITION

Element	C	Si	Mn	P	S	Cr
max. % (ladle)	≤ 0.08	≤ 1.00	≤ 1.00	≤ 0.040	≤ 0.015	16.0–18.0

No nickel (≤ 0.75 residual in ASTM). Stabilised variants 1.4509 (441, Ti/Nb) and 1.4510 (439, Ti) weld and form better.

MECHANICAL PROPERTIES

Property	Requirement (EN 10088-2, cold-rolled)	Typical value	Note
Yield strength Rp0.2	≥ 260 MPa	280–340 MPa	
Tensile strength Rm	450–600 MPa	480–540 MPa	
Elongation A	≥ 20 %	22–28 %	
Hardness	—	≤ 180 HB	
Magnetic	yes	strongly	ferritic
Impact	not required	low below 0 °C	not for cryogenic

EQUIVALENT GRADES

System	Grade	Note
EN 10088	1.4016	material number
DIN	X6Cr17	historic
AISI / ASTM A240	430	US designation
JIS G4304/4305	SUS 430	
GB/T 3280	10Cr17	
UNS	S43000	

FINISHES — BA IS THE APPLIANCE STANDARD

Finish	Look	Product examples
BA (bright annealed)	mirror-like, slight haze	refrigerator doors, hood fronts, oven panels, trims
2B	matt silver	hidden panels, shelving, trolleys, cabinets
No.4 satin	brushed	counters, display cases, indoor cladding
Embossed (linen / leather)	patterned, hides fingerprints	lift interiors, appliance sides, doors
Anti-fingerprint coated BA	clear organic coating	premium appliance fronts (to order)

BA on 430 shows ridging if stretch-formed — keep forming to bending and shallow drawing. Film stays on until final assembly.

STANDARDS

EN 10088-2 — 1.4016 (X6Cr17) · ASTM A240 — Type 430 · EN 10204 3.1