STEEL GRADE DATASHEET · ÇELIK KALITESI FÖYÜ

W.-Nr. **1.4404**

AISI/SAE **316L**

EN 10088-2 / EN 10088-3

Delivery **+AT**

Density **8.00 g/cm³**

X2CrNiMo17-12-2

Low-Carbon Molybdenum Austenitic Stainless Steel

CHEMICAL COMPOSITION

ELEMENT	WEIGHT %
C	≤ 0.030
Si	≤ 1.00
Mn	≤ 2.00
P	≤ 0.045
S	≤ 0.030 (EN 10088-3) · ≤ 0.015 (EN 10088-2)
Cr	16.5–18.5
Mo	2.00–2.50
Ni	10.0–13.0
N	≤ 0.11 (EN 10088:2005)

MECHANICAL PROPERTIES (+AT · EN 10088-3)

SECTION (MM)	R_{EH} MIN MPA	R_M MPA	A MIN %
d ≤ 160	200	500–700	40
160 < d ≤ 250	200	500–700	30

Hardness Note: +AT (solution annealed): ≤ 215 HB (EN 10088-3). Cannot be hardened by heat treatment; it work-hardens during cold forming.

INTERNATIONAL EQUIVALENTS

EN	X2CrNiMo17-12-2
W.-Nr. (DIN)	1.4404
AISI / UNS	316L / S31603
ASTM	A182 F316L · A276 · A240
JIS	SUS316L
GOST	≈ 03X17H14M3 (03Kh17N14M3)
AFNOR	Z3CND17-11-02 / Z2CND17-12
BS (UK)	316S11
GB (China)	022Cr17Ni12Mo2

TYPICAL APPLICATIONS

- Chemical and petrochemical plants
- Pharmaceutical and medical equipment parts
- Food and beverage equipment
- Flanges, fittings and valve parts
- Heat exchangers and process piping
- Marine hardware (above-water service)

Values are given per the relevant standard and are for information only; they do not replace the order specification. They may vary with section size, delivery condition and heat treatment. Binding values are those of the order confirmation and inspection document (EN 10204 3.1).

Quotation and stock
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aktifcelik.com/en/celik-kalitesi/x2crnimo17-12-2