STEEL GRADE DATASHEET · ÇELIK KALITESI FÖYÜ

X5CrNi18-10

Austenitic Chromium-Nickel Stainless Steel

W.-Nr. **1.4301** | AISI/SAE **304** | EN 10088-2 / EN 10088-3 | Delivery **+AT** | Density **7.90 g/cm³**

CHEMICAL COMPOSITION

ELEMENT	WEIGHT %
C	≤ 0.07
Si	≤ 1.00
Mn	≤ 2.00
P	≤ 0.045
S	≤ 0.030 (EN 10088-3) · ≤ 0.015 (EN 10088-2)
Cr	17.5–19.5
Ni	8.0–10.5
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	190	500–700	45
160 < d ≤ 250	190	500–700	35

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	X5CrNi18-10
W.-Nr. (DIN)	1.4301
AISI / UNS	304 / S30400
ASTM	A182 F304 · A276 · A240
JIS	SUS304
GOST	≈ 08X18H10 (08Kh18N10)
AFNOR	Z7CN18-09 / Z6CN18-09
BS (UK)	304S31
GB (China)	06Cr19Ni10

TYPICAL APPLICATIONS

- Food and beverage equipment
- Mildly corrosive service in chemical and petrochemical plants
- Flanges, fittings and pipe connection parts
- Tanks and process vessels
- Building and architectural applications
- Kitchen and decorative products

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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