METASTABLE AUSTENITIC STAINLESS STEEL

AISI 301 1.4310 / S30100 / SUS301

Metastable austenitic stainless steel

17 % Cr, 7 % Ni	**1400 MPa**	**Non-magnetic**	**EN 10204 3.1**
Austenitic	Cold rolled spring temper	Annealed	Every lot

GRADE AND STANDARDS

Item	Detail
Designations	AISI 301 / UNS S30100 / 1.4310 / SUS301 / X10CrNi18-8
Standards	ASTM A240, A666; EN 10088-2
Delivery condition	Annealed (soft), 1/4 hard, 1/2 hard, full hard
Melt route	EAF + AOD refining
Typical use	Springs and clips, rail car structures, conveyor belts, wheel covers, structural sections
Certificate	EN 10204 3.1 with chemistry and mechanicals per temper

CHEMICAL COMPOSITION (% BY MASS)

C	Si	Mn	P	S	Cr	Ni	N
≤0.15	≤1.00	≤2.00	≤0.045	≤0.030	16.0–18.0	6.0–8.0	≤0.10

MECHANICAL PROPERTIES

Temper	Tensile MPa	0.2 % proof MPa	Elongation %	Hardness
Annealed	≥515	≥205	≥40	≤95 HRB
1/4 hard	860–1030	≥515	≥25	—
1/2 hard	1030–1240	≥760	≥18	—
Full hard	1275–1450	≥965	≥8	—

SUPPLY RANGE

Form	Size range	Condition
Cold rolled strip	Thickness 0.05–3.0 mm × width up to 1250 mm	Annealed to full hard
Cold rolled sheet	Thickness 0.3–3.0 mm	Annealed / 1/4 hard
Hot rolled plate	Thickness 3–50 mm	Annealed, pickled
Round bar and wire	Ø1–100 mm	Annealed / cold drawn

INSPECTION AND CERTIFICATION

- EN 10204 3.1 with chemistry and mechanicals for the temper supplied
- Grain size and inclusion rating
- Surface finish report - 2B, BA or polished
- Magnetic permeability on request for annealed stock
- Flatness and camber on strip

ORDERING INFORMATION

- Grade and standard
- Form and size - thickness x width x length, or diameter and cut length
- Quantity in pieces or kilograms
- Delivery condition and hardness window
- Certificate and inspection requirements

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EN 10204 3.1 mill certificate with every shipment
Chemistry · mechanical properties · test results · heat number

Hardness map and ultrasonic inspection on request.
Values are typical for the grade; the certificate of the actual heat governs.