

Austenitic stainless steel grade AISI 201

General

We offer two types of austenitic stainless steel grade 201

AISI	EU code	Norm
201L	X2CrMnNi17-7-5 / 1.4371	EN 10088
201D	X9CrMnNiCu17-8-5-2 / 1.4618	EN 10088

AISI	US code	Norm
201L	UNS 20153 / type 201LN	ASTM A 240
201D	UNS 20153 / type 201-1	ASTM A 240

Chemical

%	C	N	Mn	Cr	Ni	Cu	MnL
201L	0.025	0.18	7.0	16.30	4.75	0.30	16-5
201D	0.050	0.10	6.0	16.80	4.60	1.60	17-4

Mechanical

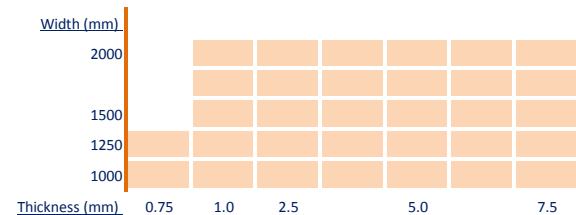
In annealed or tempered condition acc. ISO 6892-1, part 1

AISI	Grade	R _m	Re/R _p	A%
201L	1.4371 (201LN)	720	360 (MPa)	55
201D	1.4618 (201D)	660	320 (MPa)	50

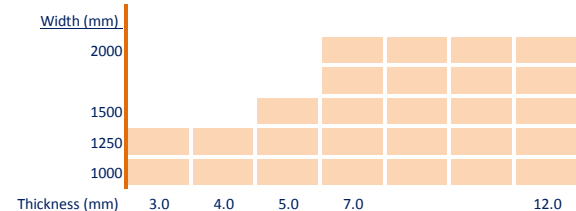
Dimensions

Delivery range / forms of sheets, coils, blanks and strips

Cold rolled (CR)



Hot rolled (HR)



Surface

200 series has similar surface finish to 1.4301, type 304

CR	finish 2B, 2D
HR	finish 1D, 2E

These 200-series grades comply with; (1) Stainless Europe Material Safety Data Sheet n°1, of the European Directive 2001/58/EC, (2) the European Directive 2000/53/EC on end-of-life vehicles and later modifications and (3) the Standard NFA 36 711 of the Stainless Steel intended for use in contact with foodstuffs, products and beverages (non packaging).

Applications

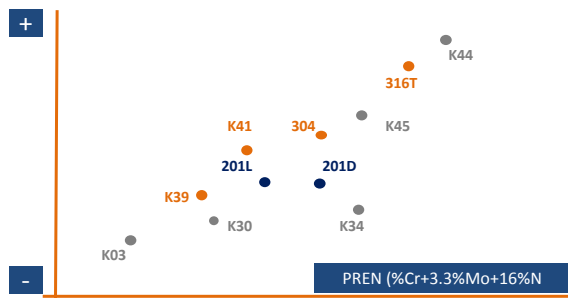
Identified fields of use for stainless steel AISI 200-series

AISI 201L/201D

- Industrial and chemical piping, tubes and profiles
- Cryogenic tanks, food storage- and dairy equipment
- Welded structures incl. sub-zero temps parts
- Household products and -appliances
- Profiles, general metalwork and construction
- Cheap alternative for 1.4318 (301LN) parts

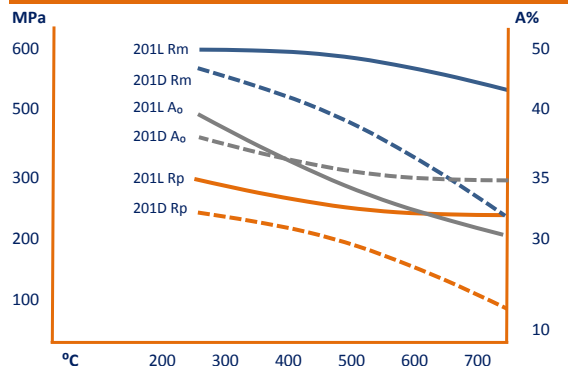
Corrosion

Indicative comparison hole-corrosion resistance grades



Grades series-200 have a good resistance to common types of corrosion, nearly equivalent to 304L (1.4307) and is recommended in cases where there is a risk of intergranular corrosion. The atmospheric corrosion resistance is excellent in urban and rural environments.

At schedule



Treatments

- Annealing regenerate structures, eliminates stresses
- Pickling with nitric-Hydrofluoric acid mixture
- Passivation HNO₃ solution, pastes for weld areas
- Polishing; grit, scotch-brite, electropolishing

Austenitic stainless steel grade AISI 200 series

Overview characteristics AISI 200 series grades

Chemical

% (max)	C	N	Mn	Cr	Ni	Cu	S
201 (0)	0.150	0.25	7.5	18.00	5.50	--	0.030
201 (1)	0.030	0.25	7.5	18.00	5.50	--	0.030
201 (2)	0.015	0.25	7.5	18.00	5.50	--	0.015
201LN (1)	0.030	0.25	7.5	17.50	5.00	1.00	0.030
201LN (2)	0.015	0.25	6.0	18.00	6.00	--	0.040
201L	0.015	0.20	7.5	17.00	4.75	--	0.015
201D	0.050	0.10	6.0	16.80	4.60	1.60	17-4
202 (0)	0.015	0.25	10.0	19.00	6.00	--	0.030
202 (1)	0.015	0.25	10.5	19.00	6.00	--	0.030
204	0.030	0.30	9.0	17.00	3.00	--	0.030
205	0.025	0.40	15.5	17.50	3.00	--	0.030
214	0.012	0.35	16.0	18.00	1.00	--	0.030
216	0.025	0.25	9.0	22.00	7.00	--	0.030

Mechanical

AISI	Grade	(min.)	R _m	R _e /R _p	A%	KV(j)
201 (0)	UNS 20100		750	350	45	100
201 (1)	UNS 20103		750	330	40	100
201 (2)	werkstoff 1.4372		750	330	40	100
201LN (1)	UNS 20153		600	280	35	100
201LN (2)	UNS 20161		630	280	45	100
201L	werkstoff 1.4371		650	300	45	100
201D	werkstoff 1.4618		580	220	50	100
202 (0)	UNS 20200		600	300	35	100
202 (1)	werkstoff 1.4373		680	340	40	100
204L	UNS 20400				n.a.	
205	UNS 20500		790	450	40	100
214	UNS 21400				n.a.	
216	UNS 21600		620	345	40	100

Graphics

