

MATERIAL NUMBER 1.4429 · CLASS 1.4

A 312 Grade TP316LN

Material no. 1.4429

also listed as X2CrNiMoN17-12-3

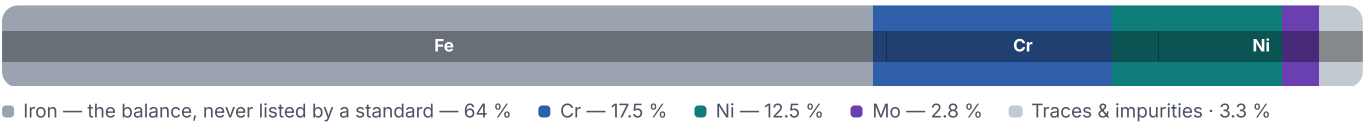
Chemical composition, mechanical and physical property values, and 62 standard designations from 11 regions.

DENSITY 8 g/cm³	OTHER DESIGNATIONS 62 in 11 regions	PROPERTY VALUES 11 on file
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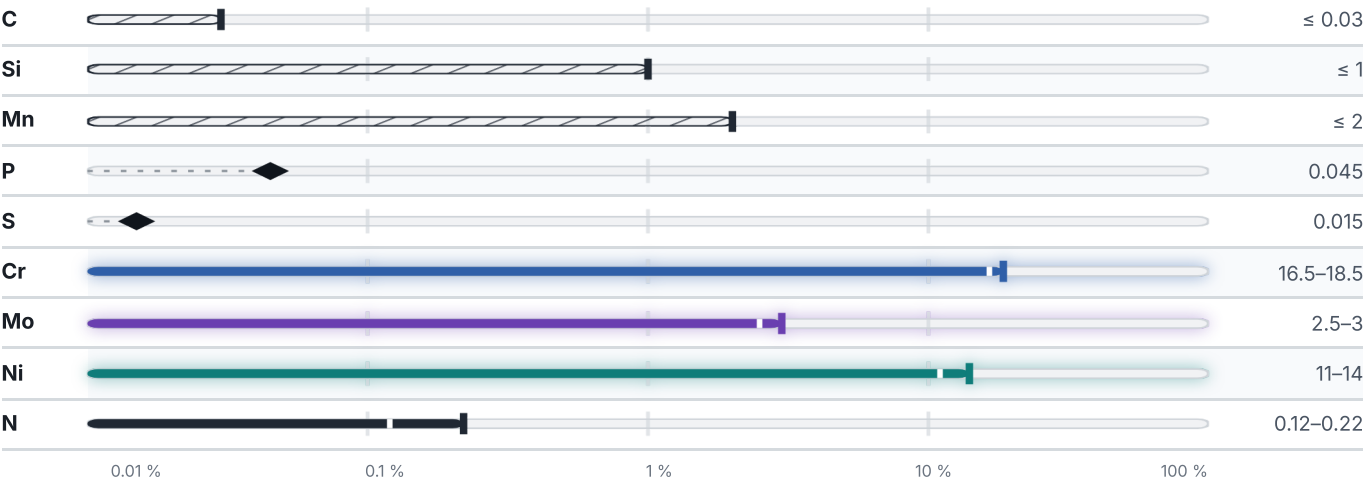
Chemical composition

Mass fraction in %

What this alloy is



Logarithmic scale, 0.01 % to 100 % — every value here compares directly, decade by decade.



The scale is logarithmic, not the element's raw share of the alloy — the only honest way to fit 0.01 % and 100 % in one picture, and it means every value here can be compared with every other.

Predicted transformation temperatures

This grade's composition falls outside the published model's validated range (a low-alloy composition window), so no transformation temperature is predicted here.

Mechanical properties

2 values across 2 conditions

SOFT ANNEALED	HB
Soft annealed	250
SOLUTION ANNEALED	HB
Solution annealed	220

Physical properties

2 values

PROPERTY	VALUE	UNIT
Density	8	g/cm ³

Technological properties

PROPERTY	VALUE	UNIT
Weldability	without limitations.	

62 designations · 5 documented as identical

United States		31	France		5
S31653	This grade's own name	uns	Z2CND17.13		afnor
316L		aisi-sae	Z2CND17.13AZ		afnor
316LN	This grade's own name	aisi-sae	Z3CND17-12-03		afnor
S31653		aisi-sae	Z3CND17-12Az		afnor
A 182 Grade F316LN		astm	Z3CND18-14-08		afnor
A 312 Grade TP316LN		astm			
A 403 Grade WP316LN		astm	Europe		4
A1012		astm	1.4429		din-en
A1022		astm	X2CrNiMoN17-12-3	This grade's own name	din-en
A1049		astm	X2CrNiMoN17-13-3	This grade's own name	din-en
A182		astm	X2CrNiMoN1813		din-en
A193		astm			
A194		astm	Japan		4
A213		astm	SCS16		jis
A240		astm	SUS F 316LN		jis
A249		astm	SUS316L		jis
A269		astm	SUS316LN		jis
A276		astm			
A312		astm	Spain		3
A320		astm	F.3533		une
A336		astm	F.3543	This grade's own name	une
A358		astm	X2CrNiMo17132		une
A376		astm			
A403		astm	Russia / CIS		2
A479		astm	03KH16N15M3		gost
A688		astm	03X16H15M3		gost
A813		astm			
A814		astm	Sweden		2
A943		astm	2353		ss
A965		astm	2375		ss
A988		astm			
United Kingdom		7	Czechia		2
316 S 63		bs	17360VN		csn
316S11		bs	17381VN		csn
316S13		bs	China		1
316S31		bs	OCr17Ni13Mo		gb
316S62		bs			
LW22		bs	Italy		1
LWCF22		bs	X2CrNiMo17-13		uni

Note on use. The data is compiled to the best of our knowledge from publicly available standards and manufacturer documentation. It replaces neither material testing nor an inspection document to EN 10204. Please request a mill certificate to EN 10204 2.1, 3.1 or 3.2 together with your enquiry. The standard in its current valid edition always prevails.

Enquiry about A 312 Grade TP316LN

Quotation, availability, mill certificate or a technical question — directly on the material page.

[Start an enquiry](#)

DATASHEET ONLINE

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GRADE SEARCH

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ISSUED

Aug 20, 2026