

MATERIAL NUMBER 1.4406 · CLASS 1.4

316S61

Material no. 1.4406

also listed as X2CrNiMoN17-11-2

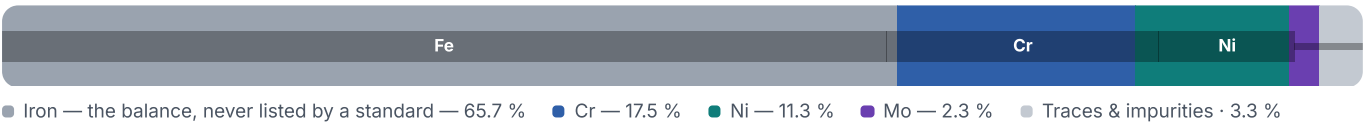
Chemical composition, mechanical and physical property values, and 46 standard designations from 7 regions.

DENSITY 7.95 g/cm ³	OTHER DESIGNATIONS 46 in 7 regions	PROPERTY VALUES 10 on file
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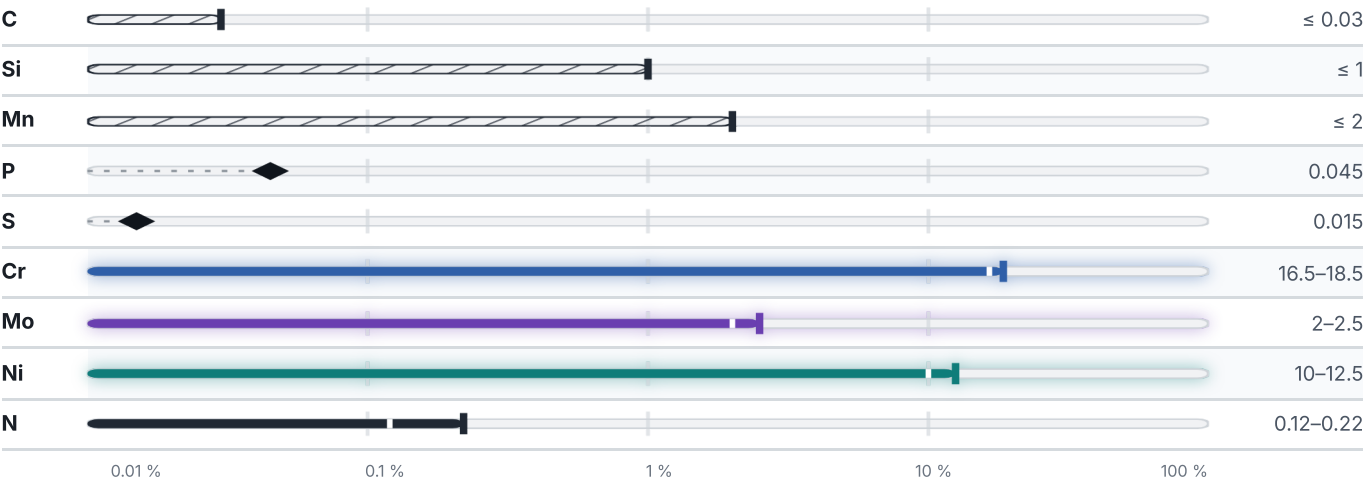
Chemical composition

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

7 values across 2 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A %	HB	HRB	HV
Plate/Sheet Hot-rolled	550	245	40	–	–	–
Hot-rolled	–	–	–	217	95	220
SOFT ANNEALED						HB
Soft annealed						250

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.95	g/cm ³

Designations across standards

46 designations · 4 documented as identical

United States		28	France		5
S31653	This grade's own name	uns	316S61		afnor
308		aisi-sae	Z1NCDU25.20		afnor
316LN	This grade's own name	aisi-sae	Z2CND17.12Az		afnor
S31653		aisi-sae	Z3CND17-11Az		afnor
A1012		astm	Z3CND17-12Az		afnor
A1022		astm			
A1049		astm	Europe		4
A182		astm	1.4406		din-en
A193		astm	X10CrNi18.08		din-en
A194		astm	X2CrNiMoN17-11-2	This grade's own name	din-en
A213		astm	X2CrNiMoN17-12-2	This grade's own name	din-en
A240		astm			
A249		astm	United Kingdom		3
A269		astm	– 58C		bs
A276		astm	316S61		bs
A312		astm	316S63		bs
A320		astm			
A336		astm	Japan		3
A358		astm	SCS17		jis
A376		astm	SUS F 316LN		jis
A403		astm	SUS316LN		jis
A479		astm			
A688		astm	Spain		2
A813		astm	F.3542		une
A814		astm	F.8414		une
A943		astm			
A965		astm	Sweden		1
A988		astm	2370		ss

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 316S61
Quotation, availability, mill certificate or a technical question — directly on the material page.

Start an enquiry

DATASHEET ONLINE
View the material page

GRADE SEARCH
Search all grades

MATERIAL NO.
1.4406

ISSUED
Aug 20, 2026