

MATERIAL NUMBER 1.4404 · CLASS 1.4

316S12

Material no. 1.4404

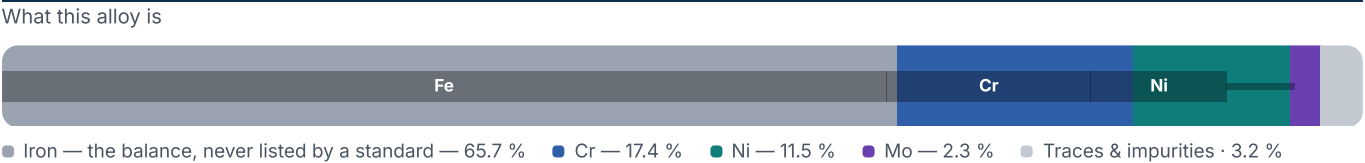
also listed as X2CrNiMo17-12-2

Chemical composition, mechanical and physical property values, and 147 standard designations from 24 regions.

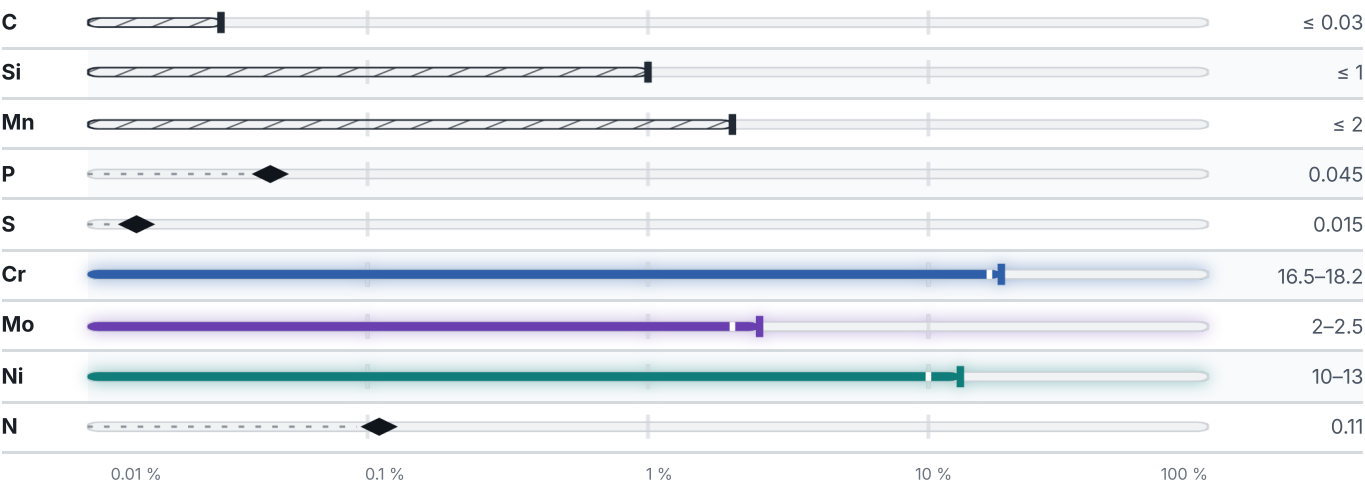
DENSITY 8 g/cm³	OTHER DESIGNATIONS 147 in 24 regions	PROPERTY VALUES 10 on file
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Chemical composition

Mass fraction in %



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

8 values across 3 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A %	HB	HRB	HV
Plate/Sheet Hot-rolled	520	205	40	–	–	–
Hot-rolled	–	–	–	187	90	200
SOFT ANNEALED						HB
Soft annealed						215
SOLUTION ANNEALED						HB
Solution annealed						200

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	8	g/cm ³

Heat treatment

5 regimes

STEP	TEMPERATURE	MEDIUM
source joins the operations with + / procedural order		
Solution annealing	Temperature not stated	—
Solution annealing	Temperature not stated	—
Solution annealing	Temperature not stated	—
source joins the operations with + / procedural order		
Solution annealing	Temperature not stated	—
Solution annealing	Temperature not stated	—
source joins the operations with + / procedural order		
Solution annealing	Temperature not stated	—
Solution annealing	Temperature not stated	—
Quenching and tempering	Temperature not stated	—
source joins the operations with + / procedural order		
Solution annealing	Temperature not stated	—
Annealing	Temperature not stated	—

147 designations · 4 documented as identical

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Japan	7	China	3
SCS16	jis	00Cr17Ni14Mo2	gb
SUS 316LFB	jis	00Cr17Ni14Mo3	gb
SUS 316LTBS	jis	0Cr18Ni12Mo2Ti	gb
SUS 316LTP	jis		
SUS F 316L	jis	Sweden	3
SUS316	jis	2343	ss
SUS316L	jis	2348	ss
		2353	ss
Spain	6	Poland	3
12-03	une	00H17N13M2	pn
F.310.K	une	00H17N14M2	pn
F.3533	une	00H17N14M2	pn
F.3533-X2CrNiMo17	une		
F.3537	une	Hungary	2
X2CrNiMo17132	une	KO38LC	msz
		X2CrNiMo18-14-3	msz
Italy	6	Austria	2
316LM1	uni	X2CrNiMo17-13-2KKW	onorm
X2CrNiMo17-12	uni	X2CrNiMo18-14-3KW	onorm
X2CrNiMo17-13	uni		
X2CrNiMo17-13KG	uni	Finland	2
X2CrNiMo17-17-12	uni	750	sfs
X2CrNiMo18-14-3	uni	X2CrNiMo17-13-3	sfs
Russia / CIS	5	South Korea	2
000X17H13M2	gost	STS316L	ks
03Ch17N13M2	gost	STSF316L	ks
03KH17N14M3	gost		
03X17H13M2	gost	International	1
03X17H14M3	gost	Type19	iso
Czechia	4	Slovakia	1
17346	csn	17 349	stn
17349	csn		
17350	csn	Brazil	1
17359VN	csn	316 L	abnt
Europe	3	former Yugoslavia	1
1.4404	din-en	Č.45707	jus
X2CrNiMo17-12-2 This grade's own name	din-en		
X2CrNiMo17-13-2 This grade's own name	din-en	Romania	1
United States / Aerospace	3	2MoNiCr175	stas
5507	ams	Australia / New Zealand	1
5584	ams	316L	as-nzs
5653	ams	Bulgaria	1
		X2CrNiMo18-14-3	bds

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 316S12

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

[Start an enquiry](#)

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1.4404

ISSUED
Aug 20, 2026