

MATERIAL NUMBER 1.4404 · CLASS 1.4

316LM1

Material no. 1.4404

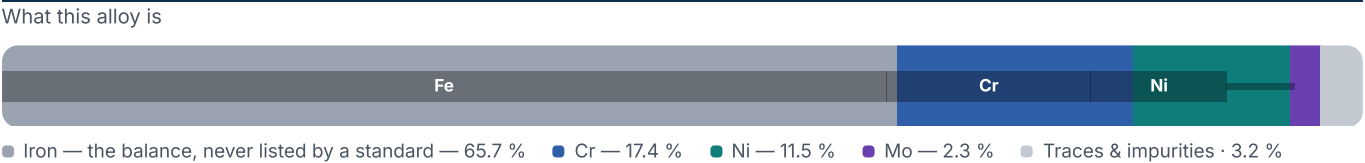
also listed as X2CrNiMo17-12-2

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

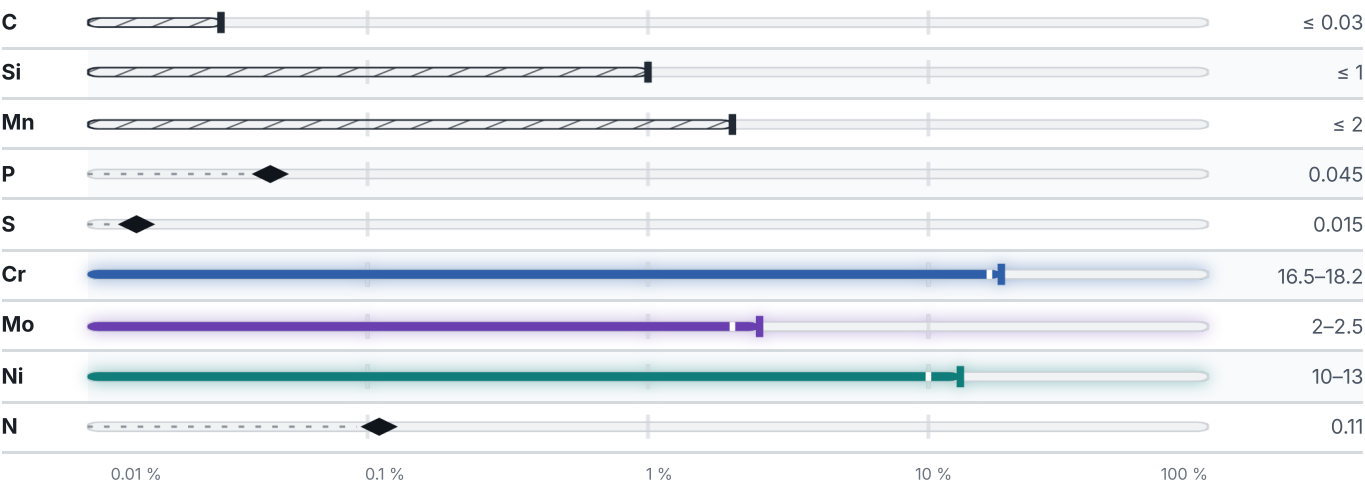
DENSITY 8 g/cm³	OTHER DESIGNATIONS 147 in 24 regions	PROPERTY VALUES 10 on file
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Chemical composition

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
SCS16	jis
SUS 316LFB	jis
SUS 316LTBS	jis
SUS 316LTP	jis
SUS F 316L	jis
SUS316	jis
SUS316L	jis

Spain	6
12-03	une
F.310.K	une
F.3533	une
F.3533-X2CrNiMo17	une
F.3537	une
X2CrNiMo17132	une

Italy	6
316LM1	uni
X2CrNiMo17-12	uni
X2CrNiMo17-13	uni
X2CrNiMo17-13KG	uni
X2CrNiMo17-17-12	uni
X2CrNiMo18-14-3	uni

Russia / CIS	5
000X17H13M2	gost
03Ch17N13M2	gost
03KH17N14M3	gost
03X17H13M2	gost
03X17H14M3	gost

Czechia	4
17346	csn
17349	csn
17350	csn
17359VN	csn

Europe	3
1.4404	din-en
X2CrNiMo17-12-2	This grade's own name din-en
X2CrNiMo17-13-2	This grade's own name din-en

United States / Aerospace	3
5507	ams
5584	ams
5653	ams

China	3
00Cr17Ni14Mo2	gb
00Cr17Ni14Mo3	gb
0Cr18Ni12Mo2Ti	gb

Sweden	3
2343	ss
2348	ss
2353	ss

Poland	3
00H17N13M2	pn
00H17N14M2	pn
00H17N14M2	pn

Hungary	2
KO38LC	msz
X2CrNiMo18-14-3	msz

Austria	2
X2CrNiMo17-13-2KKW	onorm
X2CrNiMo18-14-3KW	onorm

Finland	2
750	sfs
X2CrNiMo17-13-3	sfs

South Korea	2
STS316L	ks
STSF316L	ks

International	1
Type19	iso

Slovakia	1
17 349	stn

Brazil	1
316 L	abnt

former Yugoslavia	1
Č.45707	jus

Romania	1
2MoNiCr175	stas

Australia / New Zealand	1
316L	as-nzs

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 316LM1
Quotation, availability, mill certificate or a technical question — directly on the material page.

Start an enquiry

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GRADE SEARCH
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ISSUED
Aug 20, 2026