

MATERIAL NUMBER 1.4436 · CLASS 1.4

Type20a

Material no. 1.4436

also listed as X3CrNiMo17-12-3

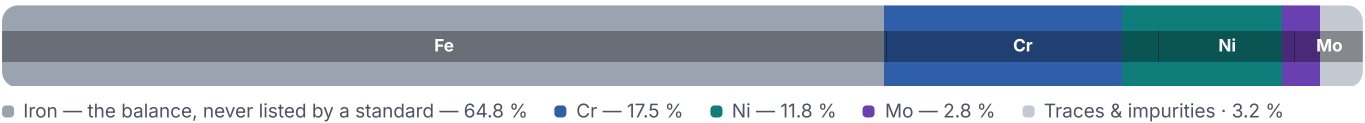
Chemical composition, mechanical and physical property values, and 118 standard designations from 18 regions.

DENSITY 8 g/cm³	OTHER DESIGNATIONS 118 in 18 regions	PROPERTY VALUES 10 on file
---------------------------	--	--------------------------------------

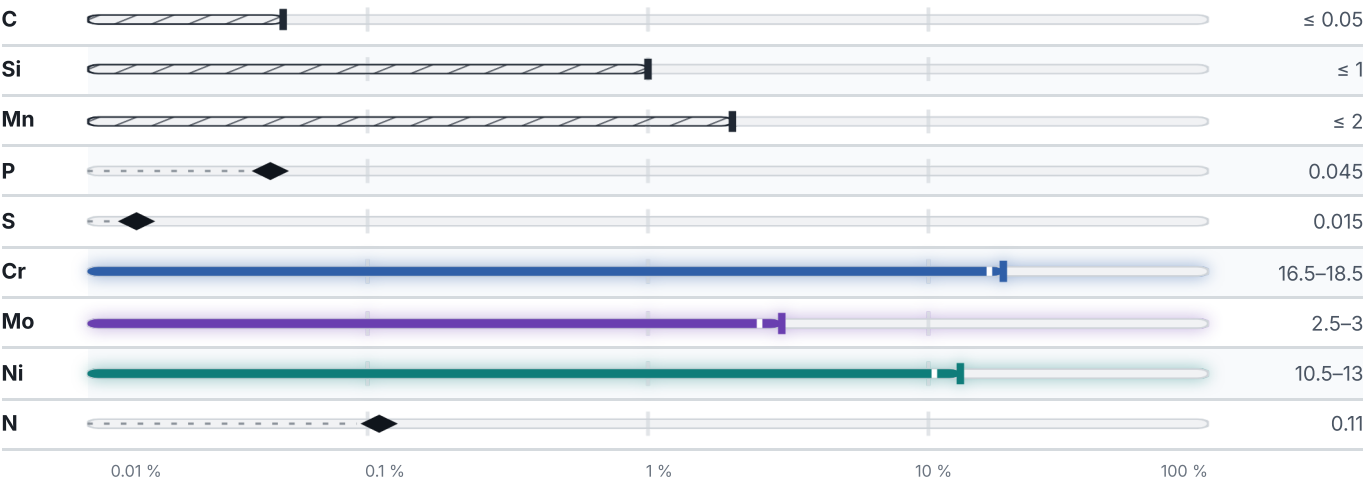
Chemical composition

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

6 values across 3 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A %	Z %
Bars/Rods	520	205	40	50
SOFT ANNEALED				HB
Soft annealed				215
SOLUTION ANNEALED				HB
Solution annealed				200

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	8	g/cm ³

Designations across standards

118 designations · 4 documented as identical

United States		63	A943	astm
S31600	uns		A965	astm
S31603	uns		A988	astm
S31673	uns		F 138	astm
30316	aisi-sae		F1667	astm
316	aisi-sae		F2215	astm
316L	aisi-sae		F2281	astm
S31600	aisi-sae		F3184	astm
316LVM	astm		F593	astm
A 167	astm		F594	astm
A 182 Grade F316	astm		F738	astm
A 312 Grade TP316	astm		F836	astm
A 403 Grade WP316	astm		F837	astm
A 479	astm		F879	astm
A1012	astm		F899	astm
A1022	astm		F957	astm
A1049	astm			
A182	astm		Japan	10
A193	astm		SUS 316A	jis
A194	astm		SUS 316F	jis
A213	astm		SUS 316FB	jis
A240	astm		SUS 316TB	jis
A249	astm		SUS 316TBS	jis
A264	astm		SUS 316TKA	jis
A269	astm		SUS 316TKC	jis
A270	astm		SUS F 316	jis
A271	astm		SUS316	jis
A276	astm		SUS316L	jis
A312	astm			
A313	astm		United Kingdom	9
A314	astm		316 S 19	bs
A320	astm		316 S 31	bs
A336	astm		316 S 40	bs
A358	astm		316 S 41	bs
A368	astm		316S13	bs
A376	astm		316S16	bs
A403	astm		316S33	bs
A409	astm		LW 23	bs
A430	astm		LWCF 23	bs
A580	astm			
A632	astm		United States / Aerospace	7
A666	astm		5507	ams
A688	astm		5524	ams
A793	astm		5573	ams
A813	astm		5648	ams
A814	astm		5653	ams
A826	astm		5690	ams
A831	astm		5691	ams

France	6	Poland	2
Z6CND17.12	afnor	00H17N14M2	pn
Z6CND18-12-03	afnor	H17N14M2	pn
Z6CND18-13	afnor		
Z7CND17-12-02	afnor	International	1
Z7CND18-12-3	afnor	Type20a	iso
Z7CND18.12.03	afnor		
Europe	4	China	1
1.4436	din-en	0Cr17Ni12Mo2	gb
X3CrNiMo17-12-3 This grade's own name	din-en	Czechia	1
X3CrNiMo17-13-3 This grade's own name	din-en	17352	csn
X5CrNiMo17-13-3 This grade's own name	din-en		
Spain	4	Slovakia	1
F.3534	une	17 352	stn
F.3534-X 6 CrNiMo 17-12-03	une		
F.3538	une	Brazil	1
X5CrNiMo 17 13 3	une	316	abnt
Sweden	3	former Yugoslavia	1
2343	ss	Č.45706	jus
2347	ss		
SIS 2343 This grade's own name	ss	Austria	1
		X5CrNiMo17-13-3KW	onorm
Italy	2	Finland	1
X5CrNiMo17-13	uni	757	sfs
X8CrNiMo1713	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 Type20a

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.

1.4436

ISSUED

Aug 20, 2026