SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.4436 · CLASS 1.4

Z6CND18-13

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

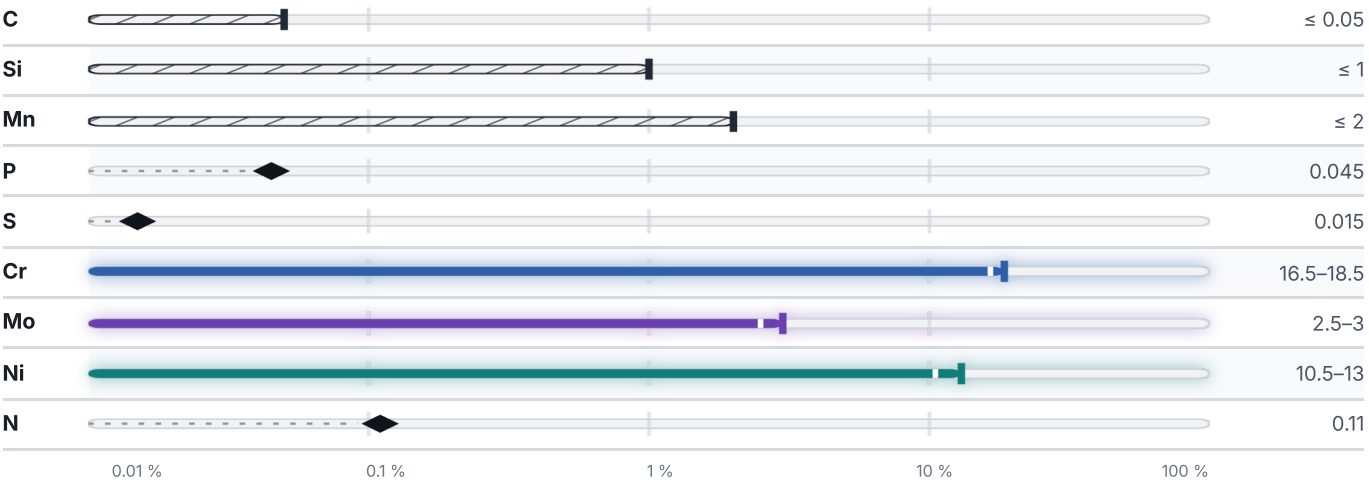
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 64.8 % · Cr — 17.5 % · Ni — 11.8 % · Mo — 2.8 % · Traces & impurities · 3.2 %

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/mm²	RE N/mm²	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/cm³

Designations across standards

118 designations · 4 documented as identical

United States 63

S31600	uns
S31603	uns
S31673	uns
30316	aisi-sae
316	aisi-sae
316L	aisi-sae
S31600	aisi-sae
316LVM	astm
A 167	astm
A 182 Grade F316	astm
A 312 Grade TP316	astm
A 403 Grade WP316	astm
A 479	astm
A1012	astm
A1022	astm
A1049	astm
A182	astm
A193	astm
A194	astm
A213	astm
A240	astm
A249	astm
A264	astm
A269	astm
A270	astm
A271	astm
A276	astm
A312	astm
A313	astm
A314	astm
A320	astm
A336	astm
A358	astm
A368	astm
A376	astm
A403	astm
A409	astm
A430	astm
A580	astm
A632	astm
A666	astm
A688	astm
A793	astm
A813	astm
A814	astm
A826	astm
A831	astm
A943	astm
A965	astm
A988	astm
F 138	astm
F1667	astm
F2215	astm
F2281	astm
F3184	astm
F593	astm
F594	astm
F738	astm
F836	astm
F837	astm
F879	astm
F899	astm
F957	astm

Japan 10

SUS 316A	jis
SUS 316F	jis
SUS 316FB	jis
SUS 316TB	jis
SUS 316TBS	jis
SUS 316TKA	jis
SUS 316TKC	jis
SUS F 316	jis
SUS316	jis
SUS316L	jis

United Kingdom 9

316 S 19	bs
316 S 31	bs
316 S 40	bs
316 S 41	bs
316S13	bs
316S16	bs
316S33	bs
LW 23	bs
LWCF 23	bs

United States / Aerospace 7

5507	ams
5524	ams
5573	ams
5648	ams
5653	ams
5690	ams
5691	ams

France 6

Z6CND17.12	afnor
Z6CND18-12-03	afnor
Z6CND18-13	afnor
Z7CND17-12-02	afnor
Z7CND18-12-3	afnor
Z7CND18.12.03	afnor

Europe 4

1.4436	din-en
X3CrNiMo17-12-3 This grade's own name	din-en
X3CrNiMo17-13-3 This grade's own name	din-en
X5CrNiMo17-13-3 This grade's own name	din-en

Spain 4

F.3534	une
F.3534-X 6 CrNiMo 17-12-03	une
F.3538	une
X5CrNiMo 17 13 3	une

Sweden 3

2343	ss
2347	ss
SIS 2343 This grade's own name	ss

Italy 2

X5CrNiMo17-13	uni
X8CrNiMo1713	uni

Poland 2

00H17N14M2	pn
H17N14M2	pn

International 1

Type20a	iso

China 1

0Cr17Ni12Mo2	gb

Czechia 1

17352	csn

Slovakia 1

17 352	stn

Brazil 1

316	abnt

former Yugoslavia 1

Č.45706	jus

Austria 1

X5CrNiMo17-13-3KW	onorm

Finland 1

757	sfs

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.

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	1.4436	Aug 20, 2026