SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.4878 · CLASS 1.4

SUS321H

Material no. 1.4878

also listed as X12CrNiTi18-9

Chemical composition, mechanical and physical property values, and 63 standard designations from 14 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.9 g/cm³	63 in 14 regions	8 on file

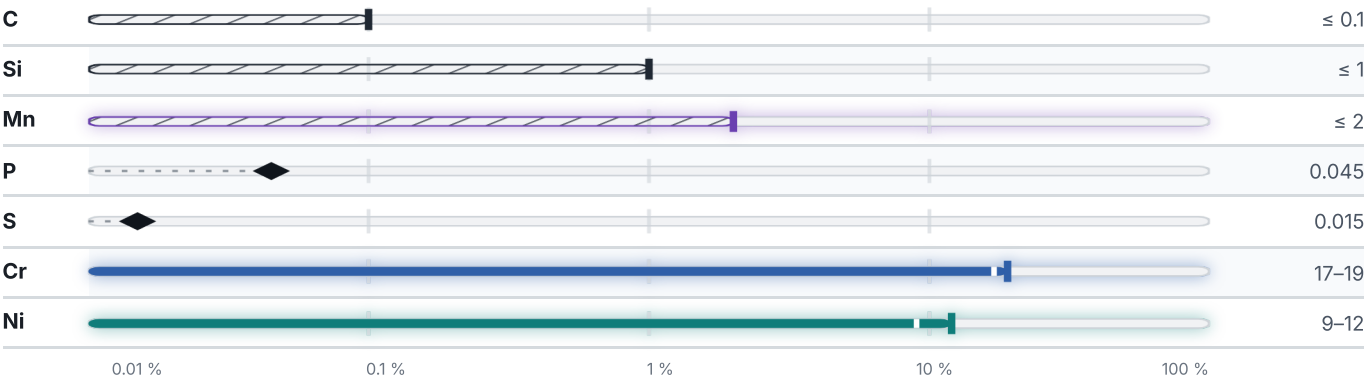
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 68.3 % · Cr — 18 % · Ni — 10.5 % · Mn — 2 % · Traces & impurities · 1.2 %

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

Not enough recorded composition to predict a transformation temperature for this grade — missing: Mo.

Mechanical properties

5 values across 2 conditions

CONDITION · DIMENSION	RM N/mm²	A5 %
Sheet thin, GOST 5582-75	740	35
Sheet thin, GOST 4986-79	740	18–35
SOLUTION ANNEALED		**HB**
Solution annealed		215

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.9	g/cm³

Designations across standards

63 designations · 4 documented as identical

Russia / CIS 14

06Ch18N10T	gost
06X18H10T	gost
08Ch18N10T	gost
08X18H10T	gost
10Ch18N10T	gost
10X18H10T	gost
12Ch18N10T	gost
12KH18N10E	gost
12KH18N10T	gost
12X18H10T	gost
12X18H10T	gost
18X18H9T	gost
X18H10E	gost
ЭП47	gost

United Kingdom 9

321 S 31	bs
321 S 51	bs
321S12	bs
321S20	bs
321S32	bs
321S32 58B	bs
58B	bs
58C	bs
EN58C	bs

Japan 9

SUS 321HFB	jis
SUS 321HTB	jis
SUS 321HTP	jis
SUS 321TKA	jis
SUS 321TP	jis
SUS F 321	jis
SUS Y 321	jis
SUS321	jis
SUS321H	jis

United States 7

S32100	uns
S32109 This grade's own name	uns
321	aisi-sae
321H This grade's own name	aisi-sae
321H	aisi-sae
S31254	aisi-sae
S32109	aisi-sae

France 5

T6CNT18.12(B)	afnor
Z1CNDU20-18-06AZ	afnor
Z6CNT18-10	afnor
Z6CNT18.12	afnor
Z6CNT18.12B	afnor

Europe 4

1.4878	din-en
X10CrNiTi189	din-en
X12CrNiTi18-9 This grade's own name	din-en
X8CrNiTi18-10 This grade's own name	din-en

Poland 4

0H18N10T	pn
1H18N10T	pn
1H18N12T	pn
1H18N9T	pn

Spain 2

F.3523	une
F.3523-X 6CrNiTi 18 11	une

Italy 2

X6CrNiTi18 11	uni
X8CrNiTi18-11	uni

Sweden 2

2337	ss
2378	ss

Czechia 2

17 246	csn
17248	csn

International 1

X7CrNiTi18-10	iso

China 1

1Cr18Ni9Ti	gb

Slovakia 1

17 248	stn

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	1.4878	Aug 20, 2026