

MATERIAL NUMBER 1.4878 · CLASS 1.4

X12CrNiTi18-9

Material no. 1.4878

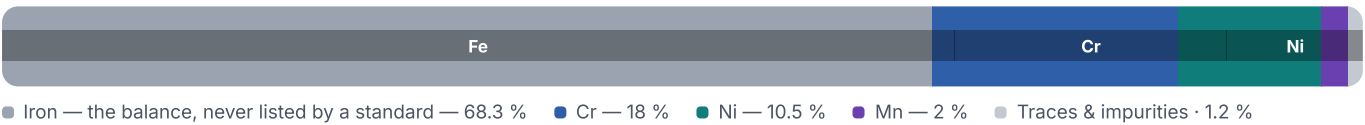
Chemical composition, mechanical and physical property values, and 63 standard designations from 14 regions.

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

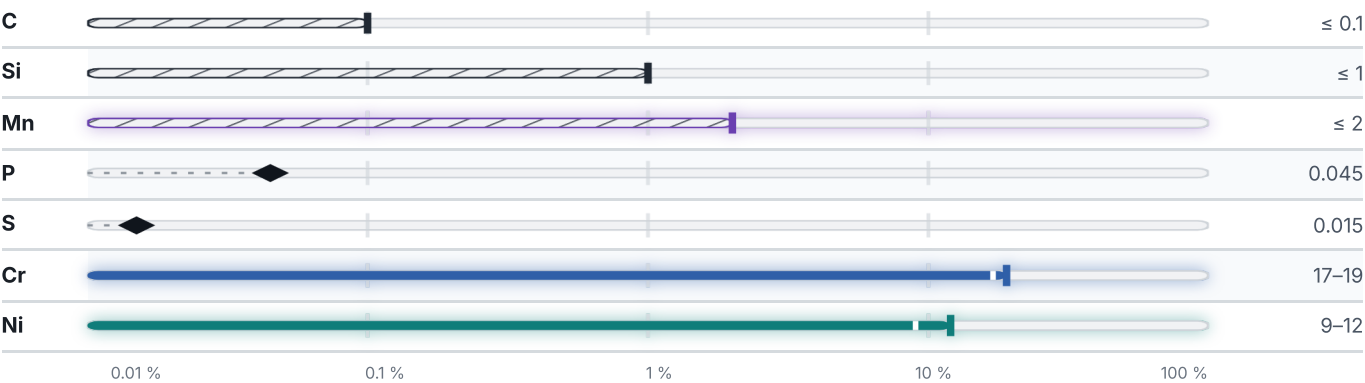
Chemical composition

Mass fraction in %

What this alloy is



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/mm ²	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/cm ³

Designations across standards

63 designations · 4 documented as identical

Russia / CIS	14	Japan	9
06Ch18N10T	gost	SUS 321HFB	jis
06X18H10T	gost	SUS 321HTB	jis
08Ch18N10T	gost	SUS 321HTP	jis
08X18H10T	gost	SUS 321TKA	jis
10Ch18N10T	gost	SUS 321TP	jis
10X18H10T	gost	SUS F 321	jis
12Ch18N10T	gost	SUS Y 321	jis
12KH18N10E	gost	SUS321	jis
12KH18N10T	gost	SUS321H	jis
12X18H10T	gost		
12X18H10T	gost	United States	7
18X18H9T	gost	S32100	uns
X18H10E	gost	S32109 This grade's own name	uns
ЭП47	gost	321	aisi-sae
		321H This grade's own name	aisi-sae
United Kingdom	9	321H	aisi-sae
321 S 31	bs	S31254	aisi-sae
321 S 51	bs	S32109	aisi-sae
321S12	bs		
321S20	bs	France	5
321S32	bs	T6CNT18.12(B)	afnor
321S32 58B	bs	Z1CNDU20-18-06AZ	afnor
58B	bs	Z6CNT18-10	afnor
58C	bs	Z6CNT18.12	afnor
EN58C	bs	Z6CNT18.12B	afnor

Europe	4	Sweden	2
1.4878	din-en	2337	ss
X10CrNiTi189	din-en	2378	ss
X12CrNiTi18-9	This grade's own name din-en	Czechia	2
X8CrNiTi18-10	This grade's own name din-en	17 246	csn
Poland	4	17248	csn
0H18N10T	pn	International	1
1H18N10T	pn	X7CrNiTi18-10	iso
1H18N12T	pn	China	1
1H18N9T	pn	1Cr18Ni9Ti	gb
Spain	2	Slovakia	1
F.3523	une	17 248	stn
F.3523-X 6CrNiTi 18 11	une		
Italy	2		
X6CrNiTi18 11	uni		
X8CrNiTi18-11	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 X12CrNiTi18-9

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

Start an enquiry

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	1.4878	Aug 20, 2026