

MATERIAL NUMBER 1.4878 · CLASS 1.4

12KH18N10E

Material no. 1.4878

also listed as X12CrNiTi18-9

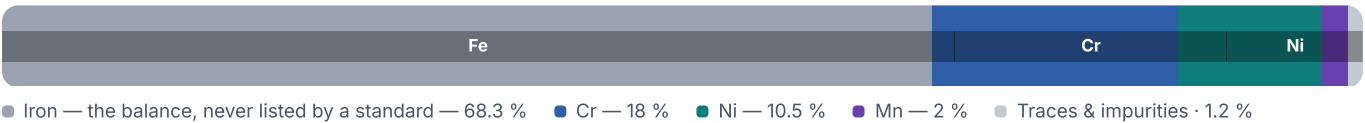
Chemical composition, mechanical and physical property values, and 63 standard designations from 14 regions.

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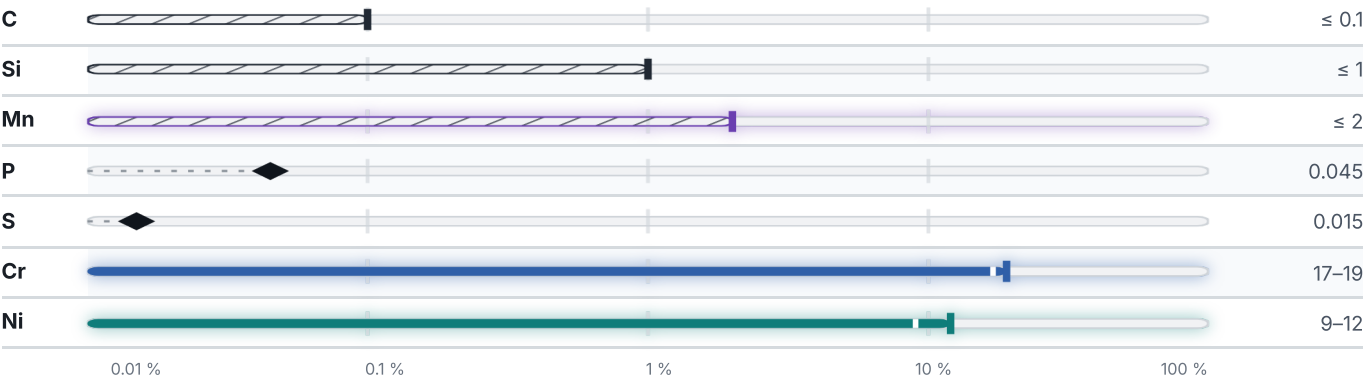
Chemical composition

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		United States		7
12X18H10T	gost				
18X18H9T	gost		S32100		uns
X18H10E	gost		S32109	This grade's own name	uns
ЭП47	gost		321		aisi-sae
United Kingdom		9	321H	This grade's own name	aisi-sae
			321H		aisi-sae
321 S 31	bs		S31254		aisi-sae
321 S 51	bs		S32109		aisi-sae
321S12	bs		France		5
321S20	bs				
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

Europe4		Sweden2	
1.4878	din-en	2337	ss
X10CrNiTi189	din-en	2378	ss
X12CrNiTi18-9	This grade's own name din-en	Czechia2	
X8CrNiTi18-10	This grade's own name din-en	17 246csn	
Poland4		17248csn	
0H18N10T	pn	International1	
1H18N10T	pn	X7CrNiTi18-10iso	
1H18N12T	pn	China1	
1H18N9T	pn	1Cr18Ni9Tigb	
Spain2		Slovakia1	
F.3523	une	17 248stn	
F.3523-X 6CrNiTi 18 11	une		
Italy2			
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 12KH18N10E

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