

MATERIAL NUMBER 1.4878 · CLASS 1.4

# T6CNT18.12(B)

Material no. 1.4878

also listed as X12CrNiTi18-9

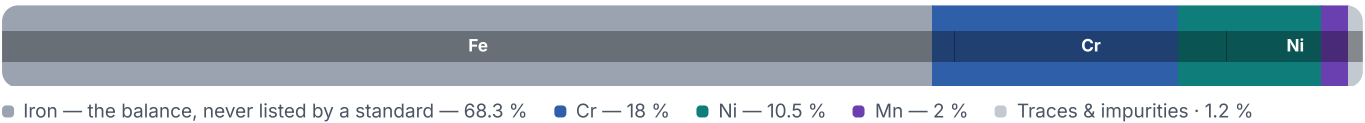
Chemical composition, mechanical and physical property values, and 63 standard designations from 14 regions.

|                      |                                        |                              |
|----------------------|----------------------------------------|------------------------------|
| DENSITY<br>7.9 g/cm³ | OTHER DESIGNATIONS<br>63 in 14 regions | PROPERTY VALUES<br>8 on file |
|----------------------|----------------------------------------|------------------------------|

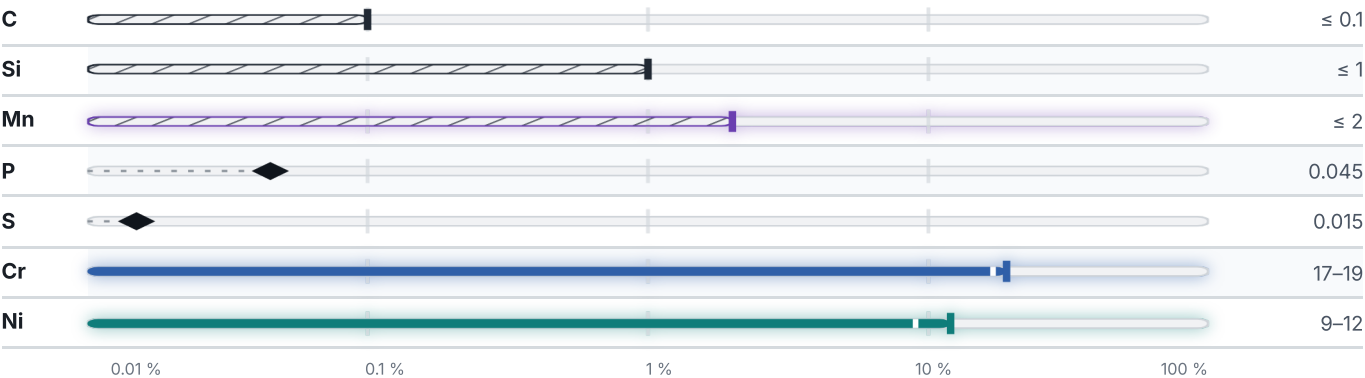
Chemical composition

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<br>N/mm <sup>2</sup> | A5<br>% |
|--------------------------|-------------------------|---------|
| 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 <sup>3</sup> |

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    |

|                        |                                 |               |     |
|------------------------|---------------------------------|---------------|-----|
| Europe                 | 4                               | Sweden        | 2   |
| 1.4878                 | din-en                          | 2337          | ss  |
| X10CrNiTi189           | din-en                          | 2378          | ss  |
| X12CrNiTi18-9          | This grade's own name<br>din-en | Czechia       | 2   |
| X8CrNiTi18-10          | This grade's own name<br>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 T6CNT18.12(B)

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 |