

MATERIAL NUMBER 1.5732 · CLASS 1.5

# 14NiCr10

## Material no. 1.5732

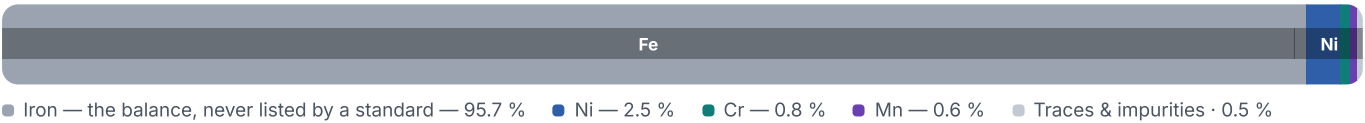
Chemical composition, mechanical and physical property values, and 21 standard designations from 14 regions.

| DENSITY    | OTHER DESIGNATIONS | PROPERTY VALUES |
|------------|--------------------|-----------------|
| 7.85 g/cm³ | 21 in 14 regions   | 15 on file      |

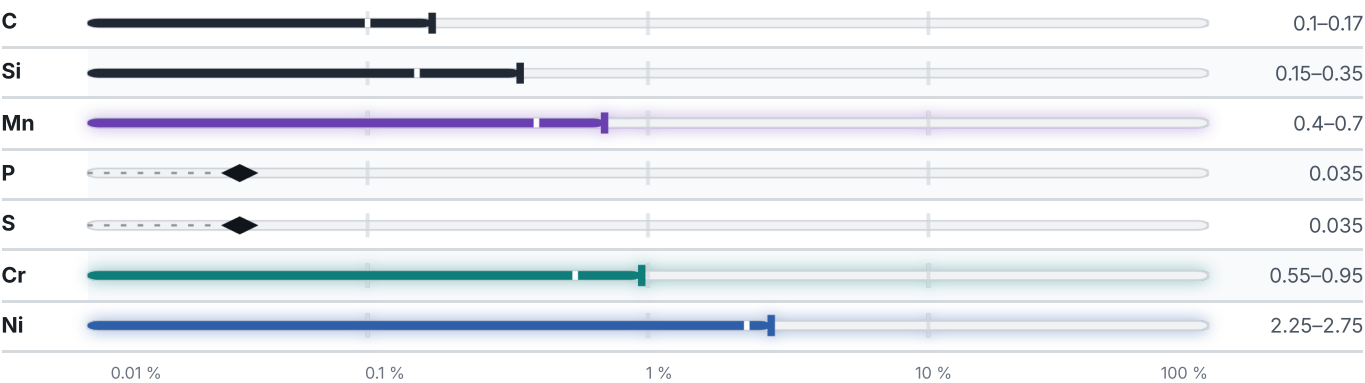
### Chemical composition

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

8 values across 2 conditions

| CONDITION · DIMENSION      |                         | RM<br>N/mm <sup>2</sup> | A5<br>% | HB     |                          |
|----------------------------|-------------------------|-------------------------|---------|--------|--------------------------|
| Pipe, GOST 21729-76        |                         | 490                     | 16      | —      |                          |
| (annealing) , GOST 4543-71 |                         | —                       | —       | 217    |                          |
| QUENCHING AND DRAWING      | RM<br>N/mm <sup>2</sup> | RE<br>N/mm <sup>2</sup> | A5<br>% | Z<br>% | KCU<br>kJ/m <sup>2</sup> |
| Ø 15                       | 930                     | 685                     | 11      | 55     | 880                      |

## Physical properties

8 values

| CONDITION · DIMENSION | RHO<br>g/cm <sup>3</sup> | E<br>GPa | ALPHA<br>10 <sup>-6</sup> /K | LAMBDA<br>W/(m·K) | CP<br>J/(kg·K) |
|-----------------------|--------------------------|----------|------------------------------|-------------------|----------------|
| 20                    | 7.85                     | 200      | –                            | –                 | –              |
| 100                   | 7.83                     | –        | 11.8                         | 31                | –              |
| 200                   | 7.8                      | –        | 13                           | –                 | –              |
| 300                   | 7.76                     | –        | 14                           | –                 | –              |
| 400                   | 7.72                     | –        | 14.7                         | 26                | 528            |
| 500                   | 7.68                     | –        | 15.3                         | –                 | 540            |
| 600                   | 7.64                     | –        | 15.6                         | –                 | 565            |

| PROPERTY                 | VALUE | UNIT              |
|--------------------------|-------|-------------------|
| Density                  | 7.85  | g/cm <sup>3</sup> |
| Transformation point Ac1 | 715   | °C                |
| Transformation point Ac3 | 773   | °C                |
| Transformation point Ar3 | 726   | °C                |
| Transformation point Ar1 | 659   | °C                |

## Technological properties

| PROPERTY           | VALUE                | UNIT |
|--------------------|----------------------|------|
| Weldability        | limited weldability. |      |
| Flake sensitivity  | predisposed          |      |
| Temper brittleness | predisposed          |      |

## Designations across standards

21 designations · 2 documented as identical

|                                             |          |                       |      |
|---------------------------------------------|----------|-----------------------|------|
| <b>Japan</b>                                | 4        | <b>United Kingdom</b> | 1    |
| SNC415                                      | jis      | 655M13                | bs   |
| SNC415(H)                                   | jis      |                       |      |
| SNC815                                      | jis      | <b>Italy</b>          | 1    |
| SNC815H                                     | jis      | 16NiCr11              | uni  |
| <b>Europe</b>                               | 2        | <b>Czechia</b>        | 1    |
| 1.5732                                      | din-en   | 16420                 | csn  |
| 14NiCr10 <span>This grade's own name</span> | din-en   | <b>Poland</b>         | 1    |
| <b>France</b>                               | 2        | 12HN3A                | pn   |
| 10NC11                                      | afnor    | <b>Serbia</b>         | 1    |
| 14NC11                                      | afnor    | Č.5425                | srps |
| <b>Spain</b>                                | 2        | <b>Hungary</b>        | 1    |
| 15NiCr11                                    | une      | BNC2                  | msz  |
| F.1540- 15 NiCr 11                          | une      | <b>Romania</b>        | 1    |
| <b>Russia / CIS</b>                         | 2        | 13CrNi30q             | stas |
| 12KHN3A                                     | gost     | <b>Bulgaria</b>       | 1    |
| 12XH3A                                      | gost     | 12ChN3A               | bds  |
| <b>United States</b>                        | 1        |                       |      |
| 3415 <span>This grade's own name</span>     | aisi-sae |                       |      |

**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 14NiCr10

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

[Start an enquiry](#)

## DATASHEET ONLINE

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## GRADE SEARCH

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## ISSUED

Aug 20, 2026