

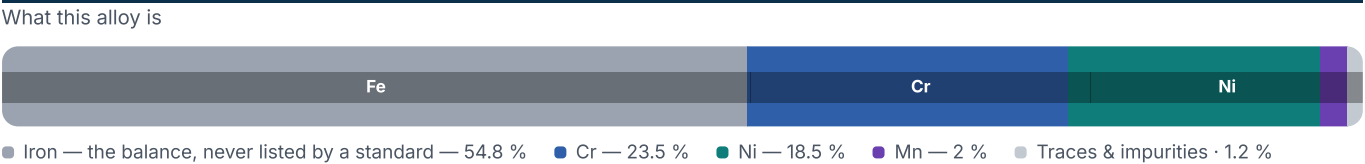
# 14Cr23Ni18

Chemical composition, mechanical and physical property values, and 1 standard designations from 1 regions.

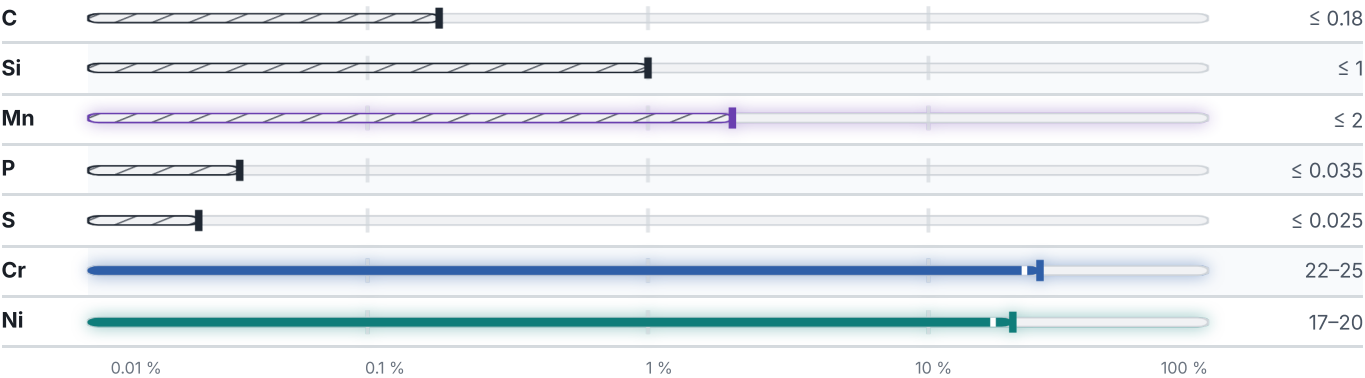
|                                   |                                             |                                      |
|-----------------------------------|---------------------------------------------|--------------------------------------|
| ELASTIC MODULUS<br><b>196</b> GPa | OTHER DESIGNATIONS<br><b>1</b> in 1 regions | PROPERTY VALUES<br><b>10</b> on file |
|-----------------------------------|---------------------------------------------|--------------------------------------|

Chemical composition

Mass fraction in %



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.

Physical properties

3 values

| CONDITION · DIMENSION | LAMBDA<br>W/(m·K) | CP<br>J/(kg·K) |
|-----------------------|-------------------|----------------|
| 100                   | 15.9              | —              |

| CONDITION · DIMENSION         | LAMBDA<br>W/(m·K) | CP<br>J/(kg·K)      |
|-------------------------------|-------------------|---------------------|
| 500                           | 18.8              | 500                 |
| PROPERTY                      | VALUE             | UNIT                |
| Elastic modulus               | 196               | GPa                 |
| Thermal expansion coefficient | 15.4              | 10 <sup>-6</sup> /K |
| Electrical resistivity        | 1000              | nΩ·m                |

Heat treatment

1 regimes

| STEP                                  | TEMPERATURE            | MEDIUM |
|---------------------------------------|------------------------|--------|
| source joins the operations with (or) |                        |        |
| Quenching                             | Temperature not stated | —      |
| Solution annealing                    | 1100–1150 °C           | —      |

Designations across standards

1 designations · 1 documented as identical

|                                               |    |
|-----------------------------------------------|----|
| China                                         | 1  |
| 14Cr23Ni18 <span>This grade's own name</span> | gb |

**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 14Cr23Ni18

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

Start an enquiry

|                        |                   |              |              |
|------------------------|-------------------|--------------|--------------|
| DATASHEET ONLINE       | GRADE SEARCH      | MATERIAL NO. | ISSUED       |
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