

MATERIAL NUMBER 1.4539 · CLASS 1.4

# 0H22N24M4TCu

## Material no. 1.4539

also listed as X1NiCrMoCu25-20-5

Chemical composition, mechanical and physical property values, and 23 standard designations from 9 regions.

| DENSITY                    | OTHER DESIGNATIONS     | PROPERTY VALUES   |
|----------------------------|------------------------|-------------------|
| <b>8</b> g/cm <sup>3</sup> | <b>23</b> in 9 regions | <b>11</b> on file |

### Chemical composition

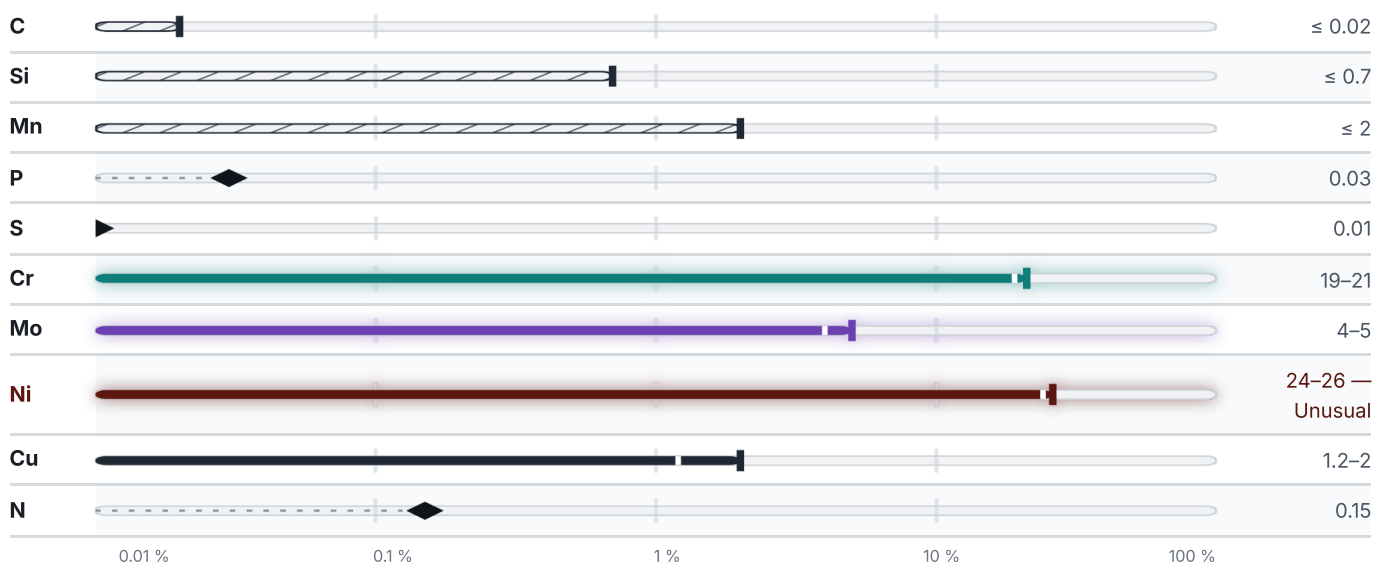
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 46 % ● Ni — 25 % ● Cr — 20 % ● Mo — 4.5 % ● Traces & impurities · 4.5 %

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

This grade's composition falls outside the published model's validated range (a low-alloy composition window), so no transformation temperature is predicted here.

Mechanical properties

2 values across 2 conditions

| SOFT ANNEALED     | HB  |
|-------------------|-----|
| Soft annealed     | 230 |
| SOLUTION ANNEALED | HB  |
| Solution annealed | 220 |

Physical properties

1 values

| PROPERTY | VALUE | UNIT  |
|----------|-------|-------|
| Density  | 8     | g/cm³ |

Designations across standards

23 designations · 1 documented as identical

|                |          |                   |                                 |
|----------------|----------|-------------------|---------------------------------|
| United States  | 9        | Europe            | 2                               |
| N08904         | uns      | 1.4539            | din-en                          |
| 904L           | aisi-sae | X1NiCrMoCu25-20-5 | This grade's own name<br>din-en |
| N08904         | aisi-sae |                   |                                 |
| N08904         | aisi-sae | Poland            | 2                               |
| UNS N08904     | aisi-sae | 00H22N24M4TCu     | pn                              |
| UNS V          | aisi-sae | 0H22N24M4TCu      | pn                              |
| UNS V 0890A    | aisi-sae |                   |                                 |
| UNS8904        | aisi-sae | United Kingdom    | 1                               |
| N 08904        | astm     | 904S13            | bs                              |
| France         | 3        | Sweden            | 1                               |
| Z1NCDU25.20    | afnor    | 2562              | ss                              |
| Z2NCDU25-20    | afnor    |                   |                                 |
| Z6CNT18.10     | afnor    | Czechia           | 1                               |
|                |          | 17342             | csn                             |
| Japan          | 3        |                   |                                 |
| F SUS 317 J5L  | jis      | Slovakia          | 1                               |
| SUS 317 J5L TK | jis      | 17 342            | stn                             |
| SUS 317 J5L TP | jis      |                   |                                 |

**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 0H22N24M4TCu

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

[Start an enquiry](#)

DATASHEET ONLINE

[View the material page](#)

GRADE SEARCH

[Search all grades](#)

MATERIAL NO.

1.4539

ISSUED

Aug 20, 2026