

MATERIAL NUMBER 1.2002 · CLASS 1.2

# 1.2002

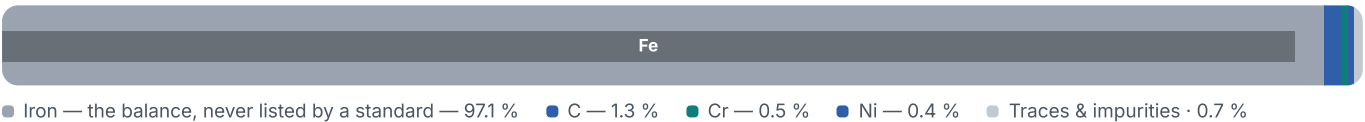
Chemical composition, mechanical and physical property values, and 10 standard designations from 3 regions.

|                                          |                                              |                                     |
|------------------------------------------|----------------------------------------------|-------------------------------------|
| DENSITY<br><b>7.85</b> g/cm <sup>3</sup> | OTHER DESIGNATIONS<br><b>10</b> in 3 regions | PROPERTY VALUES<br><b>9</b> 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

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

5 values across 4 conditions

|                       |                         |           |
|-----------------------|-------------------------|-----------|
| SOFT ANNEALED         | RM<br>N/mm <sup>2</sup> | A80<br>%  |
| 0.3 – 3               | 750                     | 11        |
| QUENCHED AND TEMPERED | RM<br>N/mm <sup>2</sup> |           |
| 0.3 – 3               |                         | 1300–2100 |
| SOFT ANNEALED         |                         | HV        |
| Soft annealed         |                         | 235       |
| QUENCHED AND TEMPERED |                         | HV        |
| Quenched and tempered |                         | 405–630   |

Physical properties

1 values

|          |       |                   |
|----------|-------|-------------------|
| PROPERTY | VALUE | UNIT              |
| Density  | 7.85  | g/cm <sup>3</sup> |

Designations across standards

10 designations · 2 documented as identical

|            |       |                              |        |
|------------|-------|------------------------------|--------|
| France     | 5     | Japan                        | 3      |
| C120E3UCr4 | afnor | SKS 81                       | jis    |
| C125RR     | afnor | SKS 81 M                     | jis    |
| XC125      | afnor | TE-2                         | jis    |
| XC130      | afnor |                              |        |
| Y2 120 C   | afnor | Europe                       | 2      |
|            |       | 125Cr1 This grade's own name | din-en |
|            |       | 125Cr2 This grade's own name | din-en |

**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 1.2002

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

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ISSUED

Aug 20, 2026