

MATERIAL NUMBER 1.1158 · CLASS 1.1

# 1.1158

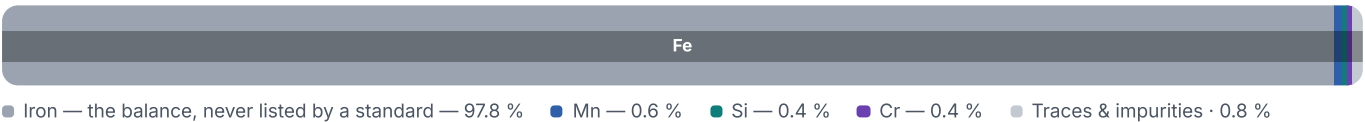
Chemical composition, mechanical and physical property values, and 19 standard designations from 12 regions.

|                                          |                                               |                                     |
|------------------------------------------|-----------------------------------------------|-------------------------------------|
| DENSITY<br><b>7.85</b> g/cm <sup>3</sup> | OTHER DESIGNATIONS<br><b>19</b> in 12 regions | PROPERTY VALUES<br><b>9</b> on file |
|------------------------------------------|-----------------------------------------------|-------------------------------------|

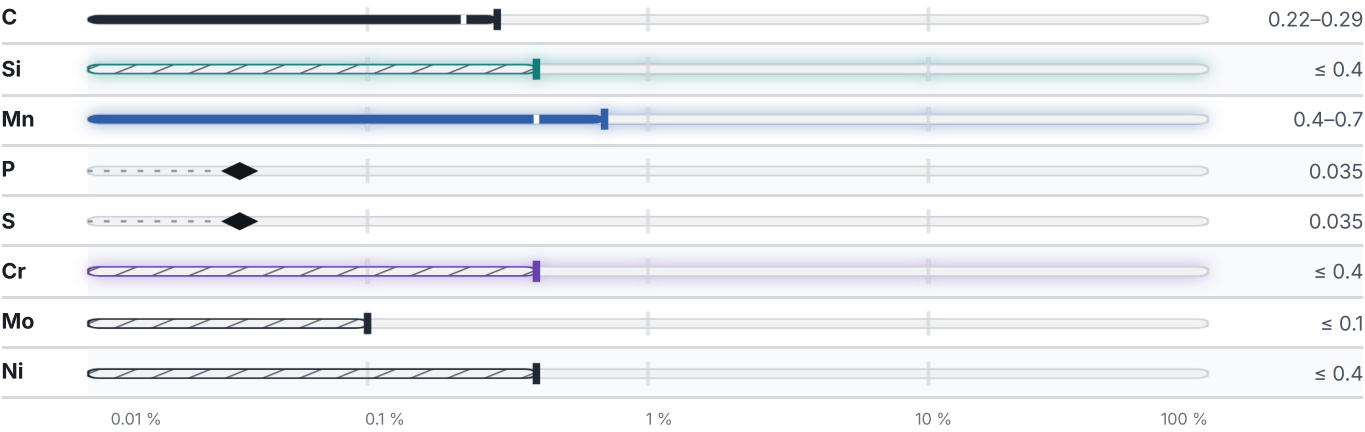
## Chemical composition

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

computed from composition · °C

|                                |                                |                                |                               |
|--------------------------------|--------------------------------|--------------------------------|-------------------------------|
| PREDICTED AE3<br><b>803</b> °C | PREDICTED AE1<br><b>725</b> °C | PREDICTED ACM<br><b>503</b> °C | PREDICTED BS<br><b>572</b> °C |
|--------------------------------|--------------------------------|--------------------------------|-------------------------------|

Mechanical properties

8 values across 1 conditions

| NORMALIZED | RM<br>N/mm <sup>2</sup> | A<br>% |
|------------|-------------------------|--------|
| ≤ 100      | 440                     | 23     |
| 100 – 250  | 420                     | 23     |
| 250 – 500  | 400                     | 23     |
| 500 – 1000 | 390                     | 22     |

Physical properties

1 values

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

Designations across standards

19 designations · 4 documented as identical

|                                           |          |                         |        |
|-------------------------------------------|----------|-------------------------|--------|
| Europe                                    | 3        | International           | 2      |
| 1.1158                                    | din-en   | C25 C25E4 C25M2         | iso    |
| C25E <span>This grade's own name</span>   | din-en   | C25E4                   | iso    |
| Ck 25 <span>This grade's own name</span>  | din-en   |                         |        |
| United States                             | 2        | Japan                   | 1      |
| G10250 <span>This grade's own name</span> | uns      | S25C                    | jis    |
| 1025 <span>This grade's own name</span>   | aisi-sae | China                   | 1      |
|                                           |          | 25                      | gb     |
| United Kingdom                            | 2        | Russia / CIS            | 1      |
| 070M26                                    | bs       | 25                      | gost   |
| C25 C25E C25R                             | bs       |                         |        |
| France                                    | 2        | Czechia                 | 1      |
| C25E                                      | afnor    | 12030                   | csn    |
| XC25                                      | afnor    |                         |        |
| Spain                                     | 2        | Slovakia                | 1      |
| F.1120                                    | une      | 12 030                  | stn    |
| F.1120-C 25 k                             | une      | Australia / New Zealand | 1      |
|                                           |          | 1025                    | as-nzs |

**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 1.1158

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

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ISSUED

Aug 20, 2026