

MATERIAL NUMBER 1.0553 · CLASS 1.0

# 422 660

## Material no. 1.0553

also listed as S 355 JO

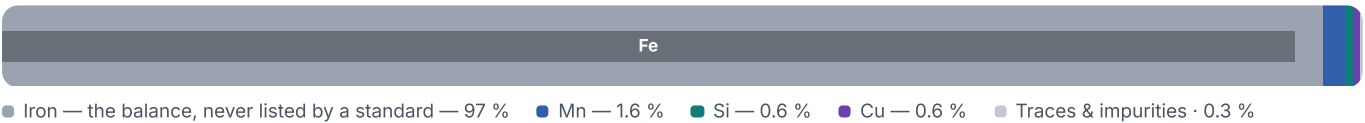
Chemical composition, mechanical and physical property values, and 30 standard designations from 20 regions.

|                                          |                                               |                                     |
|------------------------------------------|-----------------------------------------------|-------------------------------------|
| DENSITY<br><b>7.85</b> g/cm <sup>3</sup> | OTHER DESIGNATIONS<br><b>30</b> in 20 regions | PROPERTY VALUES<br><b>8</b> on file |
|------------------------------------------|-----------------------------------------------|-------------------------------------|

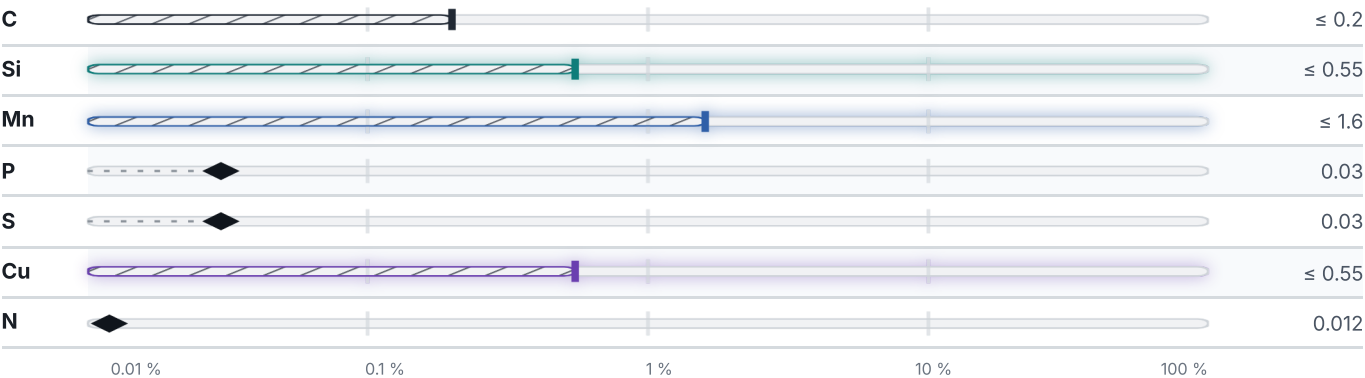
### Chemical composition

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

Not enough recorded composition to predict a transformation temperature for this grade — missing: Ni, Cr, Mo.

Physical properties

1 values

| PROPERTY | VALUE | UNIT  |
|----------|-------|-------|
| Density  | 7.85  | g/cm³ |

Designations across standards

30 designations · 3 documented as identical

|                |                                 |          |       |
|----------------|---------------------------------|----------|-------|
| Europe         | 5                               | Spain    | 1     |
| A633           | din-en                          | AE355C   | une   |
| Fe510C         | din-en                          | Norway   | 1     |
| S 355 JO       | This grade's own name<br>din-en | NS12153  | ns    |
| S355J0         | din-en                          | Japan    | 1     |
| St 52-3 U      | This grade's own name<br>din-en | SS490B   | jis   |
| United States  | 3                               | China    | 1     |
| K12000         | This grade's own name<br>uns    | 16Mn     | gb    |
| A441           | aisi-sae                        | Portugal | 1     |
| A633           | aisi-sae                        | FE510-C  | np    |
| International  | 2                               | Italy    | 1     |
| E355C          | iso                             | Fe510C   | uni   |
| Fe510C         | iso                             | Slovakia | 1     |
| Sweden         | 2                               | 11 523   | stn   |
| 2132-01        | ss                              | Poland   | 1     |
| 2134-01        | ss                              | 18G2A    | pn    |
| Czechia        | 2                               | Serbia   | 1     |
| 11523          | csn                             | Č.0561   | srps  |
| 422 660        | csn                             | Austria  | 1     |
| Hungary        | 2                               | St510C   | onorm |
| 52 C           | msz                             | Belgium  | 1     |
| Fe 355 C       | msz                             | AE355C   | nbn   |
| United Kingdom | 1                               | Finland  | 1     |
| 50C            | bs                              | Fe52C    | sfs   |
| France         | 1                               |          |       |
| E36-3          | afnor                           |          |       |

**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 422 660

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